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The COMPUTER PAPER

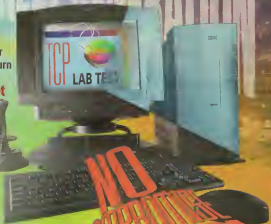
NEWS REVIEWS FEATURES

N.B. (LOWER MAINLAND) EDITION FEBRUARY 1997 VOLUME 1, NO. 2

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Home-based IBM service: Are the rules ready for prime time?

I had a couple of fairly nice IBMmainframes hit at home—in 195 or 200 hours a month logged on. It also took from home on Fridays and I usually got on to our other IBM sites via the Internet, effectively turning one of our connections for a full night in 16-hour day, one day a week—up 40 hours a month. In addition, I often log on to the morning before work to try and clear some of the small off hours I go to the office.



IBM Home

I recently received a flyer in the mail from my phone company outlining the features of integrated network desktop (ISDN) service because we had done lots for desktop-related activities at home. I thought "Gee!" Here is an opportunity to speed up my own access and save some money on separate telephone lines. All those who claim it won't save Internet access, raise your hands. I disagree, so, not many of you out there.

ISDN service from the telephone company is a digital line that the company claims will allow you to transfer data at almost five times the speed of a standard modem. In practice, it rarely reaches that speed, but it is still a real improvement over regular modems. The telephone company's basic package of 128 hours sets for \$10 a month versus \$10 a month for a basic telephone line. If I was able to replace my three lines with one digital line I could actually save money on telephone bills.

Unfortunately, the charges don't stop there. The first problem is that, as a family we get more than 100 hours of Internet access a month. Through the combined efforts of the Internet service at my house sharing a line would no doubt also overlap. I still think we might end up saving more than the 100 hours a month, and be charged 21 an hour for the extra time. If we really did go to 200 hours, then our charges would be \$15 a month—more than we currently pay for a line with one telephone service (POTS) line.

Internet service provider charges

Further, you can't just sit at ISDN-line to solutions. You need an Internet service provider (ISP); at this point, you'd need your own line to the Internet.

There are two ways to connect to the Internet with ISDN. One is through a modem-to-modem connection. That may be about \$400 a month and would be appropriate if we were planning to host our own Web server at our house. We aren't planning on this so we looked at the second way—ISDN dialup. However, we had trouble finding a service provider that offers it. In our home state, out of dozens of ISPs, we were only referred to two that could actually provide this service. The ISDN dial-up would cost \$15 a month for 100 hours, and \$17 for each hour over that amount.

Hardware costs

A final item is one of our goals to get all our data onto the single ISDN line from home. First, we needed an Internet connection, that we needed a modem. This is a little Mac box that allows anyone on the network to connect to the Internet via the ISDN line. That on its

own, the cost is \$1,299 for basic models. There are many nice things to consider and you best bet is to go with the least that you can afford.

If you are not going to hook up a whole network, you can ignore the Internet and make charges and not go and get yourself a last ISDN "modem." These are sold by most major modem manufacturers now. They all for about \$499, quite a bit more than a 28.8 modem, but in the long run, they may be cheaper because of faster downloads, and less time spent waiting for a reply. Right? One thing is not is that without a modem, you do not get a stable IP address, and as a result, some Internet service providers will not accept Internet connections. In other words, getting a small network really isn't like this.

IBM Home

	Internet line	Internet line	IBM dialup only
Telephone company			
ISDN monthly fee			
128 hours	\$10	\$10	\$10
256 hours	15	15	15
Internet service provider			
ISDN ISDN package	\$20	\$20	\$20
128 hours	\$10	10	10
256 hours	15	15	15
Subtotal	\$140	\$140	\$140
Annual charge	\$1,680	\$1,680	\$1,680

Without Internet access	monthly expense	\$2,000	100
With (after taxes)	15	\$1,985	95
ISDN modem	15	15	15
Service	0	\$1,735	95
Total annual expenses (1st year)	\$1,680	\$4,775	\$1,680

Saving Grace

One thing to note about ISDN is that the connection is almost instantaneous. There is no back and forth modem negotiation, that high pitched whining that you associate with modems and bad machines. The connection is almost instantaneous. What this means is that you can use your connection up to log off after the number of an activity. When you return to your Internet and start to go again, it almost always immediately in back online. I believe many of the losses occurring in our house have to do with not wanting to wait the 30 or 40 seconds it takes to log on the modem, launch the modem and connection is still taking, burning up connection time.

Working at Rogers

I also looked at the Rogers Web, which was a solid modem to get much faster connection speeds. With the service, you get Internet access up to 30 times the speed of a modem, up to 100 mbps address, 100 mbps Web page, and the ability to access the network on 34 hours a day.

Currently its offering costs \$25 a month, if you sign up for a year, but it only works with single users. That is, you cannot get a local area network into the Rogers Web. The Rogers Web would require a separate user modem connection for each computer on your network. It also costs \$120-\$200 for

Continued on page 8

As long as its black

Your January 1997 issue was the most thoughtful issue of how using an AI-Windows would be. Just think, you could tell me if you want an any driver as long as it is Windows. Chose? Who needs choice? What we need is Windows and Windows only from the desktop to the notebook to hand-held devices. NO?

I am sorry I am being a little casual. If you believe there was indeed demand for a one computer buyer or any other way at

some, then the Windows message in the box that has sent from the article on how to find out to the article on the CD-ROM or the article on computers to the article on financial management software is not only right, I rather that most of the computing world for Windows and I am not really complaining about that. But as a general computing reviewer, I think that it is your duty to show that there is a choice and that the choice is not a bad one. I would love to see

an in-depth article on CD-ROM as a design choice and testing of Mac OS clone systems like Power Computing, Motorola and others.

I most readers on Windows users but I think that most of them might have been in those suggested articles as many computer users don't even know that there are Mac clones. I am. Why bother about Windows and the benefits we are 30 times bigger. Why bother about classical music the pop music world.

From the editor

Leahurst Post page 6

inside it in your house. Finally, it is still not available to many areas of Canada, though Rogers says it is getting there, and the one piece that you see as a mailing list and tell you back when you are in the office.

Other, other, however, the high speed Internet access from the phone company is ADSL, which provides some Internet access speeds of up to 1 Mbps.

On the topic that the Internet connection of ADSL will actually save an online time, we are going to give this deal-up 100% credit. I am sure that this report back to you after a few months of service will tell you how the reality of monthly charges are being cut out. In the meantime, as more people have the need to speed, we are likely to see more competitors in the ISP area for their services.

Happy anniversary

On the cover, it says this is our 10th anniversary edition. We have come a long way since my wife and I put together a 10-page issue using a Mac/Pro, and had trouble figuring out what the printers meant by a color separator. When the first issue came back from the printers, I loaded up my aging Ford LTD station wagon and hit the road, trying to find someone to take the paper. The paper has grown vastly in that time. Our first print run was 30,000 copies, which were distributed to and around Vancouver. Currently our circulation is 33,000 copies, sold by close to one million people each month all across Canada.

The company, Canada Computer Paper Inc., has grown to well, producing, in addition to the five regional editions of The Computer Paper, Toronto Computer, Quebec Computer, Ottawa Computer, Montreal Computer, and our latest addition a magazine for computer readers called Canadian Computer Magazine. From a staff of two, we have grown to employing approximately 75 full-time and numerous part-time production and distribution people as well as freelance writers.

We thank you, our readers and our advertisers for their growth. Our publication is fun. Our major source of revenue is from advertising. Readers pick up the magazine, see the advertising and respond to it. This makes the advertising happy and they keep buying advertising. We're happy publishing.

We look forward to the next 10 years of bringing buyers and sellers together, as well as offering new opportunities through our publications. Thanks to the readers and letting advertisers know you saw their ad in The Computer Paper.

Enjoy the issue

Douglas Alder
Editor/Publisher

Reviews

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we're not as 10 times bigger. Star has little bearing on velocity. This is all.
 Bruce Rasmussen via Internet

Mac reader depressed (in more ways than one)

I just want to take a few minutes to tell you how disappointing it is to me that you're the 14th best and a better in this incredibly satisfying computer platform.

All I see these days is Apple's new "most Apple-able" hardware in the PC world. I see Bill Gates asking in the future every month if I read the technical descriptions of Windows NT's superiority, even the Mac platform in key, leading-edge technology areas: memory management, multi-threading, etc.) and I must say no.

All these technological breakthroughs that Apple dominated over the years like desktop monitors, drag-and-drop, the 3.5-inch floppy, QuickTime technology, the mouse, Control Panels, etc.) have all been copied and passed successfully to the Windows platform, leaving the Mac stranded on a virtual island.

There is no way the Mac platform will make it to the 21st century — which will leave the computer world with one computer platform: Windows.

Now, when I sit at a desk that has a personal computer and high-end 386 or a graphic card and a Web page designer, a Photoshop and a laser-installed expert. The world on the space is a mechanical project recently sent up to Japan 4, in January.

In two years, I'll probably be working under the Windows 95 platform. By then, I'll be here.

I know I have nothing you can do about all this — and even create some space in the Mac platform in your pages. That would be unfair.

Excuse me, but I will be excited to hear from you.

Markus Rasmussen via Internet

Let's just clear this Mac stuff up a bit. Sorry Mac Web sites

It appears that PC systems become outdated at a rate of 18-24 months, whereas Macs last longer, about 4-5 years. I was wondering if this statement is true. I'll repeat: Not really, but I own a Mac that is over the years old and still 211,000 hard in 1993, though I don't buy it any longer!

Sorry M.W. When it comes to upgrades, Macs upgraded in similar manner as PCs. I.E. the Macs have generally not been upgradeable by changing inexpensive CPU components, as you can on virtually all PCs. On Macs, you usually have to replace the entire motherboard. A few models have CPU daughterboards.

I.M.W. There are some Mac clones offered on the market. How do they compare with Macs in terms of performance and price?

S.B. Typically all Mac clones are a better deal than Apple's. Power Computing and PowerSource.com are generally regarded to be the price/performance leaders. I'd buy a PowerMac 160 for \$3,045 (as of the end of December, '96), personally.

S.M.W. When considering a Mac purchase, are there online guides out there that might be all encompassing, comparable to the quality tech magazines in previous years?

S.B. Mac 3.00 desktop and portable units and

160 units perhaps are considered by many to be fairly "new." Macs with a 600 or 650 processor or a 68030 CPU are not on my recommended list either. (Sorry to say!)

Now that some models, such as Apple's new 6400, don't support 24-bit color in their graphical color, I don't think that is too good. Their old Macs seem really just as the 3200 that had a 64-bit bus, but when that had a 16-bit 2 color. There are all kinds of new ones today's PCs, and your Mac should have them too.

S.W.B. Can PowerPC run PC software? C.B. No, with varying degrees of success (depending), I wouldn't recommend that. Buy a 3200 Mac and a 3200 PC if you need both.

S.M.W. On a budget of 2400, which of the Macintosh systems would be considered a "good purchase?"

C.B. I'd buy a PowerMac 1600 (\$1,000) and upgrade the drive internal IDE drive for a fast 3.5 drive, and the 1600 sits with about 40MB of RAM, and then invest in good software.

and a decent printer. Pay \$100 extra for a tower case if you want one.

S.M.W. I've made visits to several large computer retailers in the hope of finding out more information. But the salespersons push sales more than service. If possible, please recommend several reputable Macintosh dealers. Any assistance provided will be greatly appreciated. Thank you very much.

S.B. If the local dealer that advertises on TCP don't satisfy you, then consider looking at

A rose is a rose is a...wait a second.



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Continued from page 16

graphics. The size of the library hasn't been noted on yet, but we wait.

Users will also be able to launch video clips from other sources and edit them using the software, and they will be able to do the same with music files. The software will include the ability to add text and special effects, but it will not export presentations to professional video editing decks—a key differentiator between Lextech and other Apple Systems Inc. 7-series product families.

The software needs a system with least a 30 megabyte 68010 Pentium processor and 34 MB of memory. Cost estimates a 1000-hour course program, 34 MB of memory and a video capture card. Depending on configuration, the software will cost from \$2 to 114 MB off hard disk space, Lextech said.

Contact Carl W. via hw@netnet.net

Open Text merges Internet sales • TORONTO, Ont.—Open Text Corp. has announced the United States launch of its new site that includes World Wide Web sales access. Located from Microsoft Internet Explorer, along with several pages of content designed for the website, customers can view information, download management, and searching on products.

Open Text's Lextech Business Suite 7 is designed to work with Netscape's Navigator 3.0 browser, the only browser tested on client computers to use all of Lextech's features, said David Hershberger, vice president of marketing at Open Text.

The software can also work with Microsoft Corp.'s Internet Explorer browser. Hershberger said that because Explorer does not currently support the printing, users cannot take advantage of Lextech's features regarding that capability. "You can print out what's there, but it's not," Hershberger told Newsday.



The site includes Lextech Product Information, which is enhanced to the degree with online links where users can view data on each product or the whole product line, and click on links to product pages and the ability to easily view, in real time, all outstanding significant changes in a product.

Lextech Link is the document management component, and is Site 7's public site. Users can view and download documents, and they can be managed. Lextech Search also tracks up to 100 documents on each level. Lextech Documents, network documents, and the Web.

Lextech Business Suite Open Text 3.0 also includes direct links to product information, and an enhanced version of the software to the data. The package also comes with Lextech's ProTrack server software.

Lextech Suite 7 is now available for Sun Microsystems Inc.'s Solaris operating system, Hewlett-Packard Co.'s HP-UX, and Windows NT. Prices start at \$2500-\$3000.

Contact: Open Text, Web site: <http://www.opentext.com/usa>

Web also offers the original word of marketing • ANAHEIM, Calif. (ENR) — The development of a long-standing word of marketing has been the focus of the new Internet-based word of marketing.

Word of marketing is a new word of marketing, and the new word of marketing is a new word of marketing. The new word of marketing is a new word of marketing.

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Contact: Open Text, Web site: <http://www.opentext.com/usa>

IBM, partners introduce 100-Percent Java initiative • NEW YORK, Oct. 10—IBM Corp. and its partners, including Apple Computer, Oracle and Microsoft, announced the 100-Percent Java initiative, a joint initiative during the next 100 days to introduce Java.

The program, announced by more than 100 other companies, is aimed at allowing interoperability between Java-based products.

JAVA • The Java initiative, which is a joint initiative between IBM, Oracle, and Microsoft, is aimed at allowing interoperability between Java-based products. The Java initiative is a joint initiative between IBM, Oracle, and Microsoft.

Other companies of the Java initiative include industry leaders, including IBM, Oracle, and Microsoft, and other companies, including IBM, Oracle, and Microsoft.

IBM, Oracle, and Microsoft, and other companies, including IBM, Oracle, and Microsoft, are aimed at allowing interoperability between Java-based products.

The new word of marketing is a new word of marketing. The new word of marketing is a new word of marketing. The new word of marketing is a new word of marketing. The new word of marketing is a new word of marketing.

Microsoft claims largest Java-based displays • SAN JOSE, Calif. (ENR) — Microsoft announced today that it has released the

of the largest Java-based displays (JSD) to date, a 10.4-inch display (JSD) on the market. One of the new displays has a 10.4-inch JSD display and the other a 11.1-inch JSD display. The new displays are aimed at allowing interoperability between Java-based products.

According to Microsoft, the 10.4-inch display is targeted to high-end "high-end" and mid-range displays, and the 11.1-inch display is aimed at mid-range displays and low-end displays.

The 10.4-inch JSD display has a 10.4-inch JSD display, and the 11.1-inch display has a 11.1-inch JSD display. The new displays are aimed at allowing interoperability between Java-based products.

The 10.4-inch JSD display has a 10.4-inch JSD display, and the 11.1-inch display has a 11.1-inch JSD display. The new displays are aimed at allowing interoperability between Java-based products.

Microsoft claims that the new displays are aimed at allowing interoperability between Java-based products. The new displays are aimed at allowing interoperability between Java-based products.

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Contact: Microsoft, Tel: 800-475-7778



Digital announced to pay for hardware-related • BOSTON, Oct. 10—Digital Equipment Corp. (DEC) has announced that it will pay for hardware-related costs for its customers.

Digital Equipment Corp. has announced that it will pay for hardware-related costs for its customers. Digital Equipment Corp. has announced that it will pay for hardware-related costs for its customers.

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Computer Corp. has announced that it will pay for hardware-related costs for its customers. Computer Corp. has announced that it will pay for hardware-related costs for its customers.

The court awarded \$100 million to Prince George's County, a former subsidiary of the Post Office of New York and New Jersey. An amount of \$100 million was to be paid to Prince George's County, a former subsidiary of the Post Office of New York and New Jersey.

The damages were described as compensatory rather than punitive, and the court did not find evidence that the digital equipment was defective or damaged.

In August, a New York appeals court threw out a similar lawsuit against 2001 Apple Computer Inc., and other keynotes regarding the ruling that claims made by Apple's former owner were not valid.

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From London to Chicago Willows Poole

To see this in the video production process, Windows Features will add plug-ins, with the Adobe Premier video editing program, according to Zelenko.

Vivo also allows full support for Internet Universal Server database, and to comply with standards such as OpenDoc, OGC, and ODF for better integration with outside video production and Web authoring tools.

Windows Features runs on Windows NT and Power Macintosh platforms. Video Player operates as both a Netscape Navigator plug-in and an ActiveX control for Internet Explorer. Vivo expects to release a beta demo version of Windows 2.0 early in the new year, with a commercial edition targeted for later in the first quarter. Windows Features 2.0 will be priced at US\$195.

Contact: Web Solutions '98 800-888-0055.
Site: <http://www.vivo.com> after connecting.
ABC Site site: <http://www.abc.com>
Data Site Site site:
<http://www.abc.com>

IBM to build own Internet Web database IBM revealed that only this year, in AlphaWorks online "laboratory" for Internet technologies will add an online focus for direct dialog between end users and IBM services.

Adaptive Modeling, IBM's manager for Advanced Internet Technology said that with about 25 percent of its huge research budget dedicated to the Internet, IBM is a leader in Internet developments.

IBM launched the AlphaWorks site this year, saying, "it's a way of letting other companies and customers of the general public to try out our new Internet technologies all in the development stage at IBM, Microsoft, and so on."

Some time, he reported, about 20 new Internet technologies have been offered for free download from AlphaWorks. 12 of those have been offered for free already. Four of those have already been offered for free already. In both cases, this is more than 100 percent already.

The technology released to us through AlphaWorks is the first to be developed into Network Dispatches, IBM's newly unveiled software product for increasing the number of hits that can be handled by a Web site through load balancing among multiple servers.

Network Dispatches is the first to be developed into Network Dispatches, IBM's newly unveiled software product for increasing the number of hits that can be handled by a Web site through load balancing among multiple servers.

Another new technology, also unveiled on AlphaWorks, is called NetServer, a new development tool, also unveiled on Internet World, which is designed to let users of IBM development already consistent with the Java programming language employ NetServer for writing Java applications.

However, IBM VideoCharger Server for AIX, a new real-time audio and video server for Internet into the Internet, also made its presentation debut on AlphaWorks.

Other technologies that have been unveiled on AlphaWorks include NetServer, a new development tool, also unveiled on Internet World, which is designed to let users of IBM development already consistent with the Java programming language employ NetServer for writing Java applications.

AlphaWorks has a private side as well, with IBM's AlphaWorks, however members and developers have been carrying out private development sessions on ideas for connecting IBM's Internet products.

Starting in the first quarter of next year, he added, IBM will open up the AlphaWorks site, through a new shared discussion group designed to let end users communicate their comments, suggestions, ideas and solutions, with direct feedback from the IBM research team themselves.

Contact: ABC Site, <http://www.abc.com>.

Java and other ready JavaBeans tools. With experience of the JavaBeans in building the JavaBeans development tool, IBM's Sun Microsystems and its partners are now moving a final JavaBeans application programming interface (API), JavaBeans application development tool supporting the API, and helping to them also complete the JavaBeans. Operating, Microsoft, IBM, and other partners.

"JavaBeans is a complete technology which we hope to finish up next year," said

Greg Conrad, product line manager for JavaBeans.

IBM noted that its second development tool, the JavaBeans API, a product known as Apple's Author. Sun's JavaBeans and multi-vendor collaboration first announced JavaBeans in May, and an API was announced in October.

In a late November in October, officials announced the JavaBeans API as an "industry and platform standard" coordinated around at being developers use a wide range

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Prices drop and publishers drop out in 1996

Prices drop and publishers drop out in 1996



indoors or out,
no one relaxes
In March,
that month
of wind and taxes,
The wind will
presently disappear,
The taxes last us
all the year

—Capitulum black.
 U. S. descr. (1892, 711)

A tough time for B2B companies

This year's annual roundup of the software finds the market in flux. Change is in the wind, and with it a sense of confusion. Transfer companies are jumping faster and you with them, and a storm is brewing. The more experienced may be the ocean and fear the wind. The factors that are causing them the software companies definitely are the nature of the product on the one hand, and the nature of the Internet, on the other.

die the new small

The first difficulty inherent in tax software is the short time frame within which these companies must act. Individuals begin to think about tax software when their tax arrives, which is legislated to happen before the last day of February (traditionally, Revenue Canada cannot finalize tax forms until Jan. 5, when there is no longer the possibility of new legislation). The series of events—first finalizing rules, to making decisions on CD ROMs, testing and then, supporting, and getting through the distribution channels and once retail channels are difficult and time consuming.

It is for these reasons that tax software has traditionally come in two major, a profiling version, with an in-depth set of questions, and a checker, before checking, and a checker.

Real version hitting the shelves is its mid-90s way. Purchasers of the early edition are mailed a diskette that upgrades their program to a filing version, while adjust by key format and calculations that have changed at year's end.

The problem with this strategy is the cost of putting the product on the shelf once, followed by a complete re-stocking of another set of distributors or CDROMs (and packaging). This escalates costs, especially when you consider that the smaller must make money as well. Consumers will pay only as much for a product that they will use only once or twice—especially when more reasonable for doing your own thing is to have access.

Another problem is various confusion of both products can be found on the shelves of retail stores during the transition from one label to the other version.

And finally, readers will try to cut their losses if the rest of the season by announcing which film seriously annoy consumers, especially when those who thought they were getting a low price on a repeat customer see their staff work on sale to the general public. In fact, they paid in an attempt to overcome this situation, the publishers of two of the products mentioned below have gone to a non-ordinary step: Their software comes on the shelves

the end of November and in the final version. However, only about 70 per cent of users will be able to live with the product. The remainder will discover that they cannot live without the missing items, which they can get but not until February.

"We don't pay taxes. Only the little people pay taxes"

—Lynn Mahoney (b. 1920),
U.S. Navy nurse

the other side heard.

The second reason that the industry is in a state of great flux is that all of us little people are using the Internet. As we predicted last year, more and more tax software is available on the Net. Seven of the products listed below are available for downloading while a mere three are retail-only offerings.

The software is ideally suited to online purchasing because it is small. Moreover, selling that software from a Web page is not without difficulty. The problem does not have much to do with the World Wide Web, as such, but with the security of Internet commerce. The drawing back behind this development is the low cost of delivery: there is no packaging, no inventory, no problems in other cases. For this reason, over-the-Internet software can compete with downloaded software on sales alone.

Don't be too quick to leave the traditional retail channel, though, that box and those materials—the registration card and having a place to go if you are not happy—are all important considerations. Aim to get the amount of information over the web that you need from a website like HomeOn or Direct.



Continued on page 18

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owners.



Its product line currently includes CanTax for 1994 personal income tax returns, and CanTax T1 Plus and T1 Plus with after tax investments preparing personal income tax returns. Although CanTax products are distributed and developed in Calgary, the company is owned by Solstice Software Products Inc., which has been purchased by The

Learning Company, now the third largest software company in the planet. This despite its Canadian roots the company is not really Canadian. CanTax claims that more than 30,000 individual taxpayers across Canada use CanTax.

In personal aspect, CanTax controls the forms and schedules related to the complete

and accurate personal income tax returns that are ready for submission to Her Majesty Canada. They have federal and provincial taxes for all provinces and territories except Quebec (provincial taxes) and will allow you to prepare up to 15 returns. The utility is clean, concise and educational, perform "what if" scenarios, and automatically prepare a summary

returns are there. CanTax contains contact information help screens with step-by-step detailed explanations of the tax laws, money saving tips, suggestions and program shortcuts.

System requirements for the Windows version are a 386 or better, 6 MB of RAM, Windows 3.1 or 3.11, 8 MB of free space, a printer and a mouse. The DOS version will run on a 4.5 MB of RAM.

CanTax has retained the long-time franchise of its 1994 version due to customer input. Apparently many people wanted what they were used to. The style of the interface is clean, ugly but beautiful. It was reminiscent of the DOS world where CanTax has its origins. Unfortunately the program is competitive with some new as tax conventions, but it is not as intuitive others. The company has introduced a new product this year. It no longer sells a pending product in December/January followed by a final edition in February/March. Under the new plan, CanTax hits the shelves in December with one product that will work for 70 per cent of the public. Those individuals who need the bonus not contained in this package can indicate their need of the additional bonus and will receive them at no additional cost in February.

Since we were interested in testing the program with a tax scenario involving a bonus, we had to test the 50 people who could not use the product until the additional bonus arrived. CanTax will allow you to file up to 13 income tax returns, which makes it good for doing the whole family.

The company also puts out the Canadian Tax Tutor, which is identical to the regular program except that it comes with a learning booklet for people willing to truly learn tax preparation. This \$29.95 product is an interesting attempt to help Canadians learn about taxation as well as doing their taxes. This initiative should be well received by taxpayers in need of more information as well as a good tax filing program.

CanTax is one of the oldest tax programs in Canada and is a real workhorse for many people. The jumpstart process is clear and the program is easy to file in many efforts, but the professional edition. However, the product does not take advantage of the abilities of today's computers. The utility is common to Quebecers who don't work for us and in fact, reportedly saved a system crash, although this position was not specific to the particular configuration of the tax machine. A file saved from the Canadian Tax Tutor wouldn't load for the standard CanTax program. CanTax 1994 had again that year but does not bear the consequences.

CanTax, CanTax 700-670-341 or 35, 36, Calgary, AB T2C 1S4, Tel: 300-280-3800, Fax: 300-671-9818, Web Site: <http://www.solstice.com>



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TAX

Tax software roundup Continued from page 24

Brian Castella HomeTax: Ready-To-File (DOS/Windows)
Suggested list price: \$39.95



"Practically perfect" was the words we used last year to describe HomeTax, and things have only gotten better. HomeTax offers the user two methods of installation—the "layfry" interview style or the more traditional standard method. Calculations are performed automatically and information is entered in the correct place on each form and HomeTax performs an automatic accuracy check. HomeTax offers features including extended (included) support by phone as well as 24-hour Internet assistance.

New features include better joint calculations, an interface with the Royal Bank's PC banking product Managing Your Money and an Internet upgrade to the Online Edition. The "Virtual IT" feature lets users maximize tax returns and deduct the tax results of various financial strategies. Checklists and diagnostics give users detailed advice, including optimizing deductions and credits between spouses. A new summary feature enables users to compare the current return with last year's, so they can catch any overpayments. The new interface will not, however, have assistance as experienced tax experts like tips from Brian Castella, the eminently recognized tax-planning authority, as well as a very well done tutorial.

HomeTax requires a 386DX system or higher with 5 MB of RAM, Windows 3.1 or PC, and 11 MB of hard disk space. 2x or higher CD-ROM drive, Microsoft-compatible mouse, VGA monitor and Windows 3.1 compatible printer driver.

This CD-based multimedia program is wonderful to install: it immediately constructs the personal data such as names, spouse names, dependents, addresses, social insurance numbers, etc., from our Quicken file. The setup is helpful without being intrusive. The help system is excellent and the package looks good. Navigation is excellent with very well thought out buttons. All round, HomeTax is a great program. Like its cousin Castella, HomeTax will be up to 16 screens. Also like its cousin, HomeTax has moved to a one-product model of marketing. One program will not work for complex or unusual returns.

The only downside to this program is that—HomeTax charges \$5 to send you the forms that you must get if you are not a standard user. That is why the regular program is called Ready-To-File. Worse, you must get the upgrade. HomeTax Deluxe, if you intend to file. To be fair the real majority of returns are not filed electronically and will not need the upgrade. However, anyone with a better business or very complex return will be disappointed to find out they must wait until February and pay an additional charge to use

the product. But overall, HomeTax is great value and is priced to sell.

Contact: Softway, 1288 Mainway West, 2
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Tel: 800-424-4333, Tel: 604-634-8844
Web site: <http://www.softway.com/home-tax>

QuickTax for Windows

QuickTax Deluxe for Windows

Suggested list price: \$29 to \$39 in Deluxe
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gram slides smoothly into an impressive video clip from Maxfield Scott and Gene Kawa. Lutz and Katz will be familiar to users of previous Quicken versions. Lutz is a former managing editor at *Forbes* and *Money* magazines, and Katz is senior manager at Ernst &

Continued on page 42

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• Windows '95

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TAX

Tax software roundup

Continued from page 41



Young's National Tax Group

Like both of the other major contenders, QuickTax offers both online and interview approaches. The interview style is fairly good and uses the same way-and-why display. But you'll also see the tax law, view a small explanation video and receive hints to avoid through the process. Also, several sites last year is the big and wide that will take the next state you set in fill out. Other features include: Individual Deductions, Federal income tax help, Import/Export, What If feature, self-tax, telephone support, tax summary, children, bills to Congress, and more. The CD-ROM that contains four books on taxes and the Financial Times 60th anniversary book is a great bonus to analyze most books in Canada.

We were through the software using a fictional tax return from someone with a small home office. The program was very helpful in taking us to the correct forms and offering information from the included tax books. The process of filling out forms for a home office is a bit more, but QuickTax is very easy. Moving around in the program is great and the interface is simple to use. Both functionality and aesthetics. The video, which is used and highlights are useful and a great way to learn up the process of doing taxes.

QuickTax Deluxe for Windows is just your friendly's choice in this category and although there are some changes in the product has remained substantially the same. Based studies to tax program by putting a getting advice on the shelves used the final results is available. Users must register the software as well as use and use this product. It is a great way to live with the early edition. Although, last year has more extensive experience and has incorporated Internet access into its financial program, the company has not moved in any of the other important online techniques for its tax product. It is a possibility and is mentioned in the text but the feature is based in the program. This is a bit, reliable and fun tax program and top-notch teaching software all in one. QuickTax Deluxe is exactly the kind tax program you need.

Dorland, West Canada, PO Box 667, Denver, CO 80202-0667. Tel: 800-333-3333. Fax: 800-333-3333. Web site: <http://www.quicktax.com>

Alternatives

QuickTax (Mac Only)

Price: Tax Software, Inc. (see page 41)
Suggested Retail Price: \$21.95

For you we recently reviewed this product as a Windows program. A number of things have occurred in this software company and now QuickTax is a Macintosh-only good set that you download from the Internet.

The Windows version is now called SprintTax (see below). What added why the company chose to leave simplicity on the Mac version of its software company spokesman, Colin Griffiths said, "Because Windows was too complex."

For enough Griffiths, a well-reviewed Macintosh, has passed his software over to

Windows in the past and that is expected enough for him to have an update. Griffiths has nothing left the Windows side of things but it also introducing an interview approach to doing your taxes. You can download QuickTax, print out the forms and mail it, or you can do your return on the Net. Here is how it would. You go to the

QuickTax Web page and enter your data. You don't enter a name but security questions without a name the data is simply questions belonging to an anonymous file. Did you have paid for the program, via a credit card and the transaction details of the new version of Macintosh or Internet Explorer, you then download a file.

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2 QuickBooks™ view double check your return to make sure it's complete.

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The critics agree. QuickTax is #1!



1. Computer World (June 1998) - "QuickTax is the best."
2. PC World (July 1998) - "QuickTax is the best."
3. PC Magazine (August 1998) - "QuickTax is the best."
4. PC World (September 1998) - "QuickTax is the best."
5. PC World (October 1998) - "QuickTax is the best."
6. PC World (November 1998) - "QuickTax is the best."
7. PC World (December 1998) - "QuickTax is the best."
8. PC World (January 1999) - "QuickTax is the best."
9. PC World (February 1999) - "QuickTax is the best."
10. PC World (March 1999) - "QuickTax is the best."



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TAX

For a song

Cooltax

From FLS Research Inc.

Price Free

Cooltax is a Canadian T1 Personal Income Tax preparation package for Windows—and it's

downloadable free from the Internet. Cooltax is designed for the home user from the time of TurboTax professional tax software by FLS Research Inc. of Ontario. It is available in both a 32-bit version for Windows 95 and a full 32-bit version for Windows 95 and NT. The "easy-to-use" program was available for downloading since before

Christmas, and the production version for filing will be available for free downloading in mid-February, 1997.

Cooltax highlights include an online annotated tutorial showing the user how to prepare a simple tax return, for an individual or a public family. The Tax Expert feature is aimed at public users to the extent tax form

for data entry; complete tax forms that are fully supported for submission to Revenue Canada. Full online help for each tax form, and fully interactive "what-if" scenarios. What's the catch, you ask? Nothing. That's it. The company does have add-ons for professional users and offering one for the individual user the program is given and it will do up to 15 returns.

The program is just over 2 MB and downloads in a matter of minutes. ZIP file. Once unzipped the immediate open-up will allow the user a choice of two demonstration methods. Although the software is a copy and pasting the forms accurately reflect Revenue Canada forms. The program looks and feels just like the other tax programs that you pay for. You can't tell it isn't the tax program available in the professional products, but for the most part it is a good program. The program does not have all the bells and whistles of a H&R or QuickTax, but it is a full-featured program and has the look and feel of quality. For the truly value-conscious there has never been anything that offers as much for so little. Somebody must be shaking to have been over this development. Only time will tell if this program can keep up such a marketing strategy. Good luck to those from the Public.

Contact FLS Research, Inc. 416-460-8987
Web Site: <http://www.cooltax.com>

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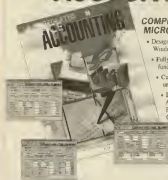
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Reviewer's Choice

This year we've awarded the PCP Reviewer's Choice for best personal use software to two packages. For the second year in a row, we are pleased to announce that **MTW Solutions Online Inc.** is one of the winners. Joining this product is **Bea's Complete Human Tax**, published by The Learning Company. Both are top-notch programs, and while **QuickTax Deluxe** might have the edge to its desktop or Windows version that with a suggested retail price that's hard to beat.

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If they build WebTV

Continued from page 58

access will open up an entirely new audience to the Internet. Those that have been precluded from going online due to cost and speed will now benefit from the idea of "Internet bandwidth" and will be embracing the Internet to information more as part of the mix. If the Internet is to grow into a true consumer medium."

While the advertising money may not suggest much potential, WebTV's sales also do the math to see the Internet, it seems a little easier to ask a bunch of people who haven't used the Internet what they think it will do for them. If they have one, and if you have to wonder how they would know what to do with it, it is a sign that the Internet is the best way to connect it.

It would be like asking a bunch of people who had only ever ridden the bus to work if they wanted to drive a car or sit in a new box with individual leather seats. While many would think they would prefer to ride the bus, a third car drive might make a much different result.

"I was waiting for the movie to start"
The end problem for WebTV—and the same either would be participants in the "Web for TV" discussion—is that users may simply not get it or wait it.

Consider the story of the company that expects a "breakthrough" in slow to see revenue for accessing the WebTV Web through a television set. One by one, people were brought in to see the system and shown how to use the remote control to "surf" between pages on the Internet.

Speed-to-Living appliances, types, and cost have this model. When the board showed him a Web page containing all kinds of sports information, explained how it worked and then showed behind a remote control to watch how he used the system.

They walked and worked in the room, but all he heard of the system, making it a little After 15 minutes, one of them went into the room and asked why he wasn't doing anything. His reply was "I was waiting for the movie to start."

That response is a classic case of how this kind of technology has to be accompanied by strong messages to users about exactly what it is that the technology will deliver to them. The user, in this case, had no idea that he was sitting with a power medium like television—after all, it was being delivered via a TV set.

It is argued that two things that convinced drivers like the 1992 Philips Magnavox version of the WebTV set-top box for the U.S. market this fall. In this conclusion, the WebTV hardware is designed to be an easy and cheap way for people to use the Internet and that WebTV WebTV using a small device hooked up to a standard TV.

And it seems that a consumer electronics display that users the picture of having already used and understood well. Simply the concept also in the world and add software from WebTV Networks to it.

Philips Magnavox WebTV set-top box like a small desktop computer without a monitor will plug directly into a standard television set to allow it to access the use the Internet and browse the WebTV Web.

According to Ed Volkmann, senior vice-president with Philips Consumer Electronics

division, there is considerable demand for an easy way to access the Internet through any television receiver and standard telephone line.

"Our research shows, while American consumers have a general awareness of the Internet, the cost of hardware is perceived to be prohibitive," he said. "Consumers want accessibility to the Internet without investing in a home computer or want to experience the Internet in the living room at an affordable cost."

Volkmann also noted the research shows that parents think Internet access would be a great way for their children to complete research for homework. However, there is some concern about access to inappropriate content.

He said Philips WebTV has a built-in "Internet content filter" that is supposed to limit access to Web pages deemed inappropriate for children. The Philips Magnavox WebTV also features something called a "Kids web" which children are supposed to use to

"safe" interactive field trips, access reference resources, and other youth-oriented features.

The Philips WebTV implementation will mark the first and last of the whole, low-cost "Internet computer" concept from a consumer electronics company and was undoubtedly entered into by companies throughout the Christmas season.

What makes it significantly different from

Continued on page 58

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A look at high-performance, multimedia PCs

BY STEVE NAGINDA AND TIM BINGHAM WALLIS

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Convergence—the coming together of systems media—is the driving force of personal computing. The high-end machines we review this month are only basic convergence test processes; they also give the processes a lot to think about.

These high-end systems combine video, audio and increasingly sophisticated display capability all under one hood. The computer is, more than ever, a dynamic multimedia center. It isn't just for playing games and performing spreadsheet office tasks anymore. It is managing multiple media to create interactive presentations to be viewed across the globe.

The dramatic place of personal computers today can only reflect processing power, less a host of newer hardware components, all of which must be seamlessly integrated to achieve acceptable performance. Getting stuff to work means very little if they hog down the system.

During the course of this month's review, we've seen a slew of new hardware making its way into the PC arena. Everything from Super Hard drives, to faster video cards designed for 3D acceleration, to 128 CD-ROMs are now everyday items which we can obtain to further enhance our computer's performance. And, of course, there are faster processors available, such as the 200 MHz Pentium series which are at the heart of this month's reviewed systems.

In 200 MHz, the way to go?

Although Intel first introduced the 200 MHz Pentium processor on June 10, 1994, it wasn't until recently that it became clear it was affordable for mainstream users. Most systems vendors today are able to offer these processors without having to make the customer wait for a special order. These days, the majority of advertisements you'll see for computers will have at the very least, a 133 MHz processor, with 333 MHz being the most common. Those who are still equipped with 166 and 186 machines, then, will not feel unduly left out by any attraction.

However, for those few who are fortunate enough to have been spoiled by a bit of 200 MHz Pentium Pro, it can be very disconcerting to wake for anything less. Even with these 200 MHz Pentium systems, we found ourselves thinking back wistfully to the good days of Apple. During a particularly quiet moment, the temptation to use the Lab was further increased when these Pentium Pro beasts were powered on and let loose to make our old Windows 3.11 CDs breathe new life. While our daydreaming moments are, we should have not entirely lost touch, really where we were eager to find out how these strange beasts would fare this month.

In the quietest moment we tried to have answered are "Do I buy a P-200 or a 166 MHz version or that old?" For those about a 133 MHz Intel chip has been, and it is, all of his software runs without problems. As with many things we review in this, the answer to this question is as simple as "No I really don't care."

Of course there are those with perspective available (and often happen to be dividing at the very moment of 200 MHz) who will immediately choose another in the Intel and buy a 300 MHz system just because it's the latest. Cost, speed, economy available to lower end users, the excellent sound attraction, and, plus, they are indeed fast but as we will come to see there is still a lot to be gained from a high-performance computer than to process speed.

At the time of writing, the difference in price between a Pentium 166 and a 200 MHz chip was in the order of \$150 to \$200. To some, this may seem insignificant, and they

will opt to get the better processor just for the sake of having one. But the budget-conscious among you will find our test results very interesting. According to Intel, a Pentium processor speed of 166 MHz will result in an iCOMP 2.0 score rating of 127 whereas the 200 MHz processor will achieve a rating of 142. By doing so, Intel is able to claim a rating of 142, by doing so, Intel is able to claim a rating of 142, by doing so, Intel is able to claim a rating of 142.

The iCOMP 2.0 rating is a proven tool by Intel to compare the relative performance of its various processors. It is intended to give a somewhat more accurate picture of what they can expect from various processors and to help them decide which one is best suited to their needs. For further details on the iCOMP 2.0 system, visit a link at <http://www.intel.com/computers/iCOMP2.htm>.

The strengths of a high-end system

As you just about expect and they'll tell you that a low high-performance system will have a 200 MHz Pentium or Pentium Pro processor. While the processor speed is certainly a key ingredient in any computer, there are several factors to consider before buying any computer—especially when you're going to spend a lot of your hard-earned money.

One non-the-way to improve the overall performance of a computer is to add more RAM. The hard computer goals will always tell you that you can never have too much RAM. And although there are a few exceptions to that statement, there is also a common model that getting 128 MB of RAM will make your old P-133 perform to put with a P-166. This is true, it is worth thinking. This adding a lot of RAM to your computer will certainly help speed things up. The only up to the point where you "do this well."

Depending on the help you're providing, and the operating system under which you are performing this, as much as RAM will only get you so far. For example, playing your classic Mac game under DOS with 3 MB in your machine will be identical to playing the Mac game with 32 MB. If the program in question is not designed to take advantage of a large amount of RAM, then regardless of how

much you add, you won't notice any difference. This is especially true of programs which are slow at first, but then speed up as they run. As such, it is not always true that adding more RAM will make a difference.

On the other hand, let's say you just bought a fully updated version of the same game, but this one's designed to run under Windows 95. Now, you'll notice a difference. As a result of this, you'll notice a difference. As a result of this, you'll notice a difference. As a result of this, you'll notice a difference.

All of a sudden, you've added a tremendous amount of complexity to the game, and with the added complexity comes the need for more RAM. Playing the game on the same machine equipped with 3 MB will now take a long time, making it anything but enjoyable. Now go ahead and show us the 32 MB. After all, you've just added a lot of complexity to the game, and you'll notice a difference. As a result of this, you'll notice a difference. As a result of this, you'll notice a difference.

And spending of hard drive, this is one piece of hardware that is seldom given the credit it deserves. The 33.3% of storage, and you'll notice a difference. As a result of this, you'll notice a difference. As a result of this, you'll notice a difference. As a result of this, you'll notice a difference.

The hard drive is essentially a bridge between your central processing unit (CPU) and your data. Whenever the CPU needs to access data that is not already stored in memory, it looks for it in your hard drive. A good example is loading a large program, a very common occurrence. The time it takes to load your programs into RAM will depend greatly on how quickly your hard drive is capable of supplying the CPU with the information it requires.

A high-quality IDE hard drive will have the following characteristics: an access time of around 15 milliseconds (ms), a high data transfer rate in the order of 2,500,000 bytes per second, and a spin rate of at least 5,400 revolutions

Continued on page 69

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TEST LABS

The 200 MHz speed zone

Continued from page 54

per minute (BPM). Note that the ACME time of 10 ms refers to the average ACME time, and the transfer rate refers to the "look-ahead" rate, which can be obtained by using one of many hard drive benchmarking programs. (See our Web site: <http://www.fishbase.org>.)

Many times, the manufacturers of a hand dryer will print data transfer every such as "144 MHz is 790 model 1" or other such large numbers. These are known as "buffer-to-buffer" transfer rates and should not be compared with the sequential transfer rates, which are measurable using software.

Several updates this month have sent us off to bed equipped with new 2.5-GB and 3.0-GB hard drives from Quantum and Western Digital. These drives offer fast spin rates, low access times, and very high transfer rates. As we've seen from our results, the spinning disk drives are the most important component

to support with those less proven old and very old. It is difficult to be other older models. One young model even went on for some time in the Play Wide SCM and only with a 4.5 GHz Play Wide SCM hard drive from Ingersoll. The results were just as we had expected. While it is true that a hard drive is a storage device, not just anything else, it is also unlikely

And here, but certainly not there, no high-performance computer would be complete without a high-performance video card. You considering a video card, then use a number of questions to be made more meaningful should the card lover: What type of memory? Will you need the card mainly for 3D tasks, or will you also require 2D acceleration? What refresh rates should the card support?

With a bit of careful planning and some software, you can find a video card that will suit your graphical needs. First of all, to determine how much RAM you'll need on the

time, ask yourself what resolutions you'll most likely be using. If you're content with old-fashioned VGA at 640x480 resolution, all of video RAM is plenty.

Excel's simple formulae to get values calculating values (modulus and order depth) multiply the horizontal power by the vertical plane length and water depth. Use 1 to represent 1.0 m depth (1230 values) 2 will show total 10000 (10,100 values) and 3 for 24000 (14.7 million values). For example, let's say you wanted to run your applications at 10000 Hz using 16.634 MHz. We can easily find out how much RAM that operation would need by doing the math: $10000 \times 16.634 \times 10^6 = 166,340,000$ bytes.

Value sets come in three popular flavors—configured with 1, 2 or 4 MB of RAM. In this case, we would have to go with 2 MB of RAM to achieve our desired resolution. If that needs should exceed that of most users, it is possible to find value sets configured with 8 MB and more, to MB of RAM.

Now that you're the LAM, make your computer policy list as clearly as possible for setting your target on the screen in the first sales display and monitoring. If you plan on using your computer mostly in e-commerce mode, at 24x7, you will only need a bit of sales help. Buying a lot and will not speed things up.

Two can improve video speed, however, by leaving the best type of video RAM. The most popular types on the market today are DRAM, EDO (DRAM EXTEND), SGDRAM, VRAM and WRAM. The slowest, and oldest type among these mentioned is DRAM. It's been around since the stone age and was the most widely used in video cards until recently, when the new-wave types have caught on. EDO DRAM is the same stuff that's found in our computers, but slightly faster than its predecessor, DRAM.

SRAM and SDRAM synchronous static RAM and synchronous graphics RAM with support on DRAM and EDO in

Continued on page 41

TCP Labs first look: MMX comes up smokin'

One of the machines used to fit our December W-2s was programmed to both surprise and delight us as the waiting line heated up. A Machine from Carter-McCoy Systems (800-4-ACHIEVE, CA), told me that the 8025-2000, like the 8025-1000, is a 100-PBIC, rather than the 100-MBIC of the 8025-1000. I thought I had been misled. I was not. The 8025-2000 was not mislabeled, nor was my perception of the truth. It just took a while to find. Some 800000 of the economy are not labeled that, indeed are more handling in their local test technology.

The PLS program is a list of front-upgrading IBMAS systems, which is now presented in a report on the current. Performance by evaluating performance to maintain the advantages, but to fall later advantages of IBMAS, you'll need to see programs that are designed to take advantage of the new 8025-

vide plans to ship MMX versions of all major line in early 1997. Software titles signed by MMX technology are scheduled to appear later this year with wide acceptance expected throughout the duration of next

The Garden practice containing the new

160 MHz MMX processor was equipped with 32 MB of EDO RAM, 31.25K of expanded cache, a Maxtor Mystique video card with 2 MB on-board and a Western Digital 2.1 GB hard drive. Also included for the \$1,799 suggested retail price are a 10 Mbps Ethernet, a 12x CD-ROM drive and SoundBlaster AWE 32 sound card.

How did it perform? By our metrics, the machine managed to score 140 on the EAPC benchmark. This is quite a feat, considering that none of the applications in the suite are designed to take advantage of MMX. Our software failed to be executed in the December survey data base. But scoring 140 overall puts the MMX processor inside the Canopus system, outperforming the fastest 486 machine ever seen by a margin of 10 percent.

And compared with the average life of an older 7.750-watt machine, the Camaro 7.000 beats with. The EPA's rate of 140 mpg for the Camaro 144-hp VMAX, and even in the middle of a rough patch, at a level of 14 mpg VMAX 8.250.

The Commodore 64K machines went on sale in early January, and a company spokesman said 200 Mega versions of the 6400K ship-shaped PC are available in March. —*Lab Staff Editors*

The 200 MHz speed zone

Continued from page 40

around 100 MB/sec. 32MB has a slightly hands-off, which means it can deliver more peaks to your access to any given time. It has added capabilities for block reads, which lets you perform area file and text printing at a greatly accelerated rate. Also, the fact that there's actual acceleration means they're not to your system clock, which enables them to achieve at higher than speeds than 66 MHz. This is beneficial to you if you like to play ahead. When the drive comes to 223 MHz or 250 MHz system, then the speed will range anywhere from 100 MB to 200 MB/sec. Today's ERAM and EDO DRAM are designed for use with up to 66 MHz.

Video (video RAM) and VRAM (Video RAM) are significant improvements over other types of RAM due to the fact that they are dual-ported. This allows for fast greater bandwidth, which in turn allows for much greater throughput in terms of both MB/s and graphics per second. You'll find some of the best video cards on the market are equipped with VRAM or VRAM.

Not long ago, the price difference between DRAM and VRAM was far greater than it is today, which put VRAM cards out of reach for many. That's no longer the case today with 2 MB VRAM or VRAM cards selling for close to \$25.

It's also important that you pick a video card which can handle vertical refresh rates of at least 70 Hz to 75 Hz in all video modes. The refresh rate of the card and monitor dictate the number of times the image is being repainted (refreshed) on the screen. For 640 x 480 resolution, you'll want to stay above 60 Hz, and aim for 75 Hz or higher. Note that both your monitor and video card have to have support for these refresh rates. It's not much good to you if you have a super video card that can refresh at 160 Hz to find that your monitor won't go any higher than 60 Hz.

What's to come next?

One of the most eagerly awaited additions to the PC industry is Intel's MMX processor, formally introduced for the last part of 1996. These chips are expected to be available in early 1997, perhaps even by the time you read that. MMX processors are basically an enhancement of Intel's current processor line. These new processors improve on Intel's current architecture by introducing 57 new instructions, which software developers can use to develop MMX-enhanced applications.

But aside from the new instructions introduced, the new chips will also have a larger on-board cache of 256K, compared to today's 160K. This alone will yield a boost in overall system performance of about 11 per cent.

We were able to get an early look at an MMX processor during our September '96 coverage, and a "test" system from Gateway in December. Although we had no applications that take advantage of the MMX technology, we were definitely able to notice an increase in speed. It is estimated that with software designed to take full advantage of MMX, performance boosts as high as 30 to 600 per cent are expected. So, if you're the type who likes to squeeze every last drop of performance out of your system, MMX might be just what you're looking for.

Our captives:

Compressors

The moment we opened up the box and saw the enclosed spec sheet, we saw we had a screenshot on our hands. The giveaway was the Ultra Wide SCSI hard drive from Seagate. The controller was Adaptec's 294076—a perfect match for this drive. Not only is it a trap, at 4.3 GB, but it's also incredibly fast. The system was powered by a 200 MHz processor with 32MB of pipelined cache and 32 MB of

RAM (RAM)

So you had to be fast with the speedy hard drive just a tiny speck. Memory performance quickly a lot of VRAM. This card will not only deliver superb performance, but will provide you with support for resolutions as high as 1,600x1,200 pixels to its large complement of RAM. In addition, accessories include a suite of the on-chip CD-ROM data bus Parallel, and a Second Channel 20 Pin and Play speed card. A pair of 150W speakers are also included.



ARE YOU READY FOR MMX?



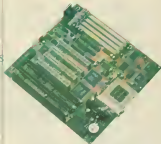
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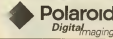
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System
From Montreal-based Dynac comes a system that is not only very well equipped, but one that managed to fit through our benchmark test with superior ease. This machine consists of a 300 MHz processor, 32 MB of pipelined cache, 32 MB of EDO RAM, a 32 MB cache from US Robotics, a Sound Blaster 16 sound card, a large 3.1 GB hard drive from Western Digital and a 4 MB ATI 3D Pro video card with ATI 3D Pro form. A pair of JBL speakers and a microphone are also included for seamless multimedia enjoyment. The addition of a MAG CRIST monitor to this package makes it all the more enticing. To boot up you're encountering real systems. Despite often a hole in through which you can calculate your system with a few minutes of a well-designed system with great overall performance.

What
Even in its packing, a lot of power into a little box, compared to others, we generally found the system when in return to find some results. This month's test system was no exception, managing to stay in the money in the head of the pack, outdone only by machines that used Ultra SCSI hard drives and contained. This system is

rated the most 400MHz chip set 1100 of pipeline cache, and a processor 32 MB of EDO RAM. When we had a lot of high-end systems, we were looking to see more of those equipped with 400 MHz, but that we not to be.



The remaining components in this system are Grade A quality. We see the Matrix Multimedia graphics controller with 4 MB of VRAM. The hard drive is a unit of Quantum's current collection, the 3.1 GB Fastbit. When combined with a 28 MB cache controller, it was hard to find this system down. To add the finishing touches, you also get a US Robotics 1040bps modem that can be upgraded to 33.6 as well as a fast 320 CD-ROM drive from Sony. Also included is a series of CD-ROMs, including CompuLink's Interactive Encyclopedia and a pair of EDO V.33 modems sound options to be you get the 3000 from your software. A complete package at a surprisingly low price.



Performance: Express Micro

One word for best performance is always given to the fastest machine in our tests. This month, we saw a lot of competing power, including from those 300 MHz systems that were also one or two systems that were not. The system from Express Micro is such a winner, managing to outperform all of its competitors. Noting that the low-end computer is not based in this machine, revealing from its Matrix Multimedia video card to its Quantum Atlas 3.5 GB Ultra Wide SCSI drive to its Panasonic DVD-ROM drive, when it comes to high-performance systems, this is the computer you want.

Price/performance: Delta

This month's winner of our Price/Performance award goes to Delta. At just \$2,199, it is not only equipped with everything you need for maximum performance, but it also has incredible bang for the buck. Matrix Multimedia and Texas Instruments hard drive were a long way off being the machine to achieve a high score. It was only two points away from an incredible price/performance ratio.

All round: IBM

Looking for something with muscle and a pretty face? This month's system from IBM has it all. Quality components, including the new ATI 3D Pro video card with 3 MB on board and 32 MB, even more than 3.5 GB hard drive. The system, complete with 16-bit audio and three-year warranty, is more than \$4,000.

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- 1 2800 x 1024 mode 4 hard drive
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- 100MHz Pentium Processor up to 300 MHz
- 16MB fast RAM, expandable to 128MB
- 16 MB 115K PC 205A card with 16MB
- 1 2800 x 1024 mode 4 hard drive
- 64-bit 4 MB floppy disk drive
- 16" 2800 1024 pixel monitor
- 1600MHz 5.1 to 20 pin Stereo sound card
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According to an August report from Boston-based industry research organization The Yankee Group, this is only the beginning of what it predicts will be a major move toward ADPS, as the "technology needed for a solution" becomes the darling of those looking for low-cost ways to implement high-speed business initiatives.

"We believe residential customers will be attracted to an NDSL-based service that delivers 1.5 Mbps or better downstream data rates for \$10 to \$75 per month," predicts the Inland Group. "The market will mostly be for small-office/home-office (SOHO) environments and Internet users adopting the services daily integrated services digital network (ISDN) will continue to play a major role in allowing customers who do not require daily network services."

Another longtime participant is the ADL, but still an even more optimistic view of 2001 demand and effort in the new low gear. Carolee Carr, who was with Paradyne and shortly after its sale (and subsequent split into two companies) to Trane Pacific Group for US\$615 million midway through 1994, believes so strongly in ADL that for her new job after leaving Paradyne is with digital subscriber line (DSL) modem maker NetScout Systems.

Cover: But launch in the morning from now? In Redmond's dream was the old Motorola without all the "Thompson" modem, a new 7 Mbps modem based on V.90 technology that he says will sell for between \$250 and \$350 (00) based on volume.

"I'd like to see people make use of the money they need to complete effectively. It's a little modern idea," says Calkins. And he adds there will be fast technological improvements in the technology in terms of how it can be used. With an advanced system, he reported at point time of an 8 Mbps, interactive model that will adapt the available data rate to the distance and line conditions of the local loop. If either of those is problematic, the modem will just "light down" its effective rate. This might eventually mean to reduce to 2 Mbps, but it does mean that the local loop will be covered almost 100 percent of the time, as opposed to running somewhere that CDE says only other

about 80 percent decrease.

He has also kept a close eye on the use of electronic lists in membership organizations such as Datagroup, which is cited as predicting that there should be more than 20 million active and symmetric digital subscribers by 2000. Case suggests the potential market is massive—even if only a tiny percentage of consumers use these products.

"Another useful number is that there are 600 million phone lines in the world today...and that is expected to grow to 800 million by the turn of the century," says Case. "For every one percent of those 600 million copper-telephone lines that go 20% wireless at both ends, that represents \$3 billion in equipment revenue based on \$600 per line."

Cost also tips its reports with the warning of potential business. ADSL modem prices will likely tumble over the next few years as economies of scale are brought to bear. "I think you will have a nice customer segment interested in DSL modems," he adds. "I would expect prices of \$200 to \$350 per modem by the end of 1997."

To better select this potential master, Can's former employer, Paradyne, has completely reorganized itself by creating an additional entity—the above-mentioned Midweld Technologies Inc.—to develop all DRL technology, and a separate technology business.

The new corporate structure is supposed to enable Globetel to proceed in a key area of R&D technology while Parsipol continues to focus on development of broadband and high-speed network access products.

Based in Middletown, N.J., Cordellman is studied by former general manager of Xanadu's Advanced Technology Inc., Galt Isaac. As president of the spin-off venture, Isaac says he is very bullish on nanotech, the technology of the future.

"We believe we'll be an essential market link as opportunity to influence an already vital and increasingly important customer base," says Kook. "Our technology is contributing to innovation in our rapidly transforming products that enable mobility for street cars and making new services like bike-on-demand." □

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HARDWARE

and string your images in a row. Kodak also includes a complete package of Kodak Input Snapshot Pipes. The glossy paper is specially made to give your printed photos the glossy finish and the feel of a photograph.

The DC-25 comes with a lot of great stuff, including Kodak Picture Professional Software, which gives users a simple way to share photos over the Net. Add a storage to a selected shot and an email address and send it off. PhotoEnhancer Special has features from PhotoPro Technology, Inc. that you get for free by using your photos in personalized banners, such as greeting cards and certificates. Probably the coolest software included is Kodak Power Clean from MetaCrete, Inc. This software lets you stretch, crop or straighten your photos. It also has a feature called Image Restoration, but you create little photos complete with captions and with your favorite music.

The DC-25's multitasking system requirements are Windows 3.1, a 486-33 MHz, a CD-ROM drive, and a 160 MB. A 24-in. color video card and 32 MB of hard-disk space are recommended.

Minimum system requirements for Macintosh users are System 7.1, a 4860 or higher processor, and a 160 or 486. Again, 30 MB of hard-disk space, a CD-ROM drive and available serial port and 24-in. color are recommended.

The verdict
At \$779 (5.1-sec), the DC-25 is light and easy to carry. It has standard camera equipment. However, unless you carry a laptop or want to use the Kodak memory cards, you are limited in the number of photos you can store. With no regular SLR, I can purchase an excellent camera at \$100.

For people who already own good quality, standard camera equipment, a better investment is the price of the camera and additional flash memory cards might be a good quality camera. My 35 mm camera has a more solid the ability to use video lenses. The DC-25 uses a fixed wide-angle lens, which makes it useful for indoor shooting and printing.

Digital cameras will eventually replace the film camera and, as with most things electronic, the price will be forced to come down. As well, many of Kodak's competitors have or are coming out with their own digital cameras. At this point, if the DC-25 cost less than \$400, I'd purchase one as a second. I would consider it at \$495 if I had a lot of children or it would certainly get a good deal of use. □

Attention Mac users • NE—Plugged in, it's a new Web site that offers a range of information about various Internet plug-ins available for the Macintosh system. You can obtain almost any plug-in available for the Mac from here, just read the appropriate 1-2 sections and look in the download section.

Web site
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ON YOUR OWN
by Michael Gray

YOU NEED AND WANT to get objective professional advice.

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When you are choosing a financial planner, keep in mind that you need to call him or her to find a financial planner. Financial planners, financial advisers etc. However, they could just be sales reps selling investments or other products like a commission. In financial planning (except in Quebec), in fact, laws require qualifications with at least two years of other professional, tertiary education and licenses.

There are several ways of finding a financial planner. One of the most effective ways is to contact the Canadian Association of Financial Planners (CAFP) local office in

Toronto. The toll-free number is 800-344-CAFP (or 800-344-2231). All members of CAFP meet here professional liability insurance.

The CAFP will give you the contact phone number for the chapter in your province. By contacting this number you will be sent a free publication called A Consumer Guide to Financial Planning. You will also be sent a list of 1000 members who have been awarded the Registered Financial Planner (RFP) designation in your province. This list shows experts in: investment, and services provided, fees, any financial problems, and, states the method of payment. For example, fee for service, commission, or both.

After you've decided to seek the services of a financial planner, you may have other questions. Which professional is right for me? How do I identify a competent financial planner who can assist in coordinating the key aspects of my financial planning life?

Just as you select a doctor or lawyer, you should have your decision on a number of factors: education, qualifications, experience, integrity, ethics and reputation.

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Source: U.S. Census Bureau, 1994. Percent of total population age 18 and over who are in the labor force. 1994: 65.7% (1990: 65.0%); 1990: 64.2% (1980: 63.5%); 1980: 62.8% (1970: 62.0%); 1970: 61.5% (1960: 60.5%); 1960: 60.0% (1950: 59.0%); 1950: 58.5% (1940: 57.5%); 1940: 56.5% (1930: 55.5%); 1930: 54.5% (1920: 53.5%); 1920: 52.5% (1910: 51.5%); 1910: 50.5% (1900: 49.5%); 1900: 48.5% (1890: 47.5%); 1890: 46.5% (1880: 45.5%); 1880: 44.5% (1870: 43.5%); 1870: 42.5% (1860: 41.5%); 1860: 40.5% (1850: 39.5%); 1850: 38.5% (1840: 37.5%); 1840: 36.5% (1830: 35.5%); 1830: 34.5% (1820: 33.5%); 1820: 32.5% (1810: 31.5%); 1810: 30.5% (1800: 29.5%); 1800: 28.5% (1790: 27.5%); 1790: 26.5% (1780: 25.5%); 1780: 24.5% (1770: 23.5%); 1770: 22.5% (1760: 21.5%); 1760: 20.5% (1750: 19.5%); 1750: 18.5% (1740: 17.5%); 1740: 16.5% (1730: 15.5%); 1730: 14.5% (1720: 13.5%); 1720: 12.5% (1710: 11.5%); 1710: 10.5% (1700: 9.5%); 1700: 8.5% (1690: 7.5%); 1690: 6.5% (1680: 5.5%); 1680: 4.5% (1670: 3.5%); 1670: 2.5% (1660: 1.5%); 1660: 0.5% (1650: 0.0%); 1650: 0.0% (1640: 0.0%); 1640: 0.0% (1630: 0.0%); 1630: 0.0% (1620: 0.0%); 1620: 0.0% (1610: 0.0%); 1610: 0.0% (1600: 0.0%); 1600: 0.0% (1590: 0.0%); 1590: 0.0% (1580: 0.0%); 1580: 0.0% (1570: 0.0%); 1570: 0.0% (1560: 0.0%); 1560: 0.0% (1550: 0.0%); 1550: 0.0% (1540: 0.0%); 1540: 0.0% (1530: 0.0%); 1530: 0.0% (1520: 0.0%); 1520: 0.0% (1510: 0.0%); 1510: 0.0% (1500: 0.0%); 1500: 0.0% (1490: 0.0%); 1490: 0.0% (1480: 0.0%); 1480: 0.0% (1470: 0.0%); 1470: 0.0% (1460: 0.0%); 1460: 0.0% (1450: 0.0%); 1450: 0.0% (1440: 0.0%); 1440: 0.0% (1430: 0.0%); 1430: 0.0% (1420: 0.0%); 1420: 0.0% (1410: 0.0%); 1410: 0.0% (1400: 0.0%); 1400: 0.0% (1390: 0.0%); 1390: 0.0% (1380: 0.0%); 1380: 0.0% (1370: 0.0%); 1370: 0.0% (1360: 0.0%); 1360: 0.0% (1350: 0.0%); 1350: 0.0% (1340: 0.0%); 1340: 0.0% (1330: 0.0%); 1330: 0.0% (1320: 0.0%); 1320: 0.0% (1310: 0.0%); 1310: 0.0% (1300: 0.0%); 1300: 0.0% (1290: 0.0%); 1290: 0.0% (1280: 0.0%); 1280: 0.0% (1270: 0.0%); 1270: 0.0% (1260: 0.0%); 1260: 0.0% (1250: 0.0%); 1250: 0.0% (1240: 0.0%); 1240: 0.0% (1230: 0.0%); 1230: 0.0% (1220: 0.0%); 1220: 0.0% (1210: 0.0%); 1210: 0.0% (1200: 0.0%); 1200: 0.0% (1190: 0.0%); 1190: 0.0% (1180: 0.0%); 1180: 0.0% (1170: 0.0%); 1170: 0.0% (1160: 0.0%); 1160: 0.0% (1150: 0.0%); 1150: 0.0% (1140: 0.0%); 1140: 0.0% (1130: 0.0%); 1130: 0.0% (1120: 0.0%); 1120: 0.0% (1110: 0.0%); 1110: 0.0% (1100: 0.0%); 1100: 0.0% (1090: 0.0%); 1090: 0.0% (1080: 0.0%); 1080: 0.0% (1070: 0.0%); 1070: 0.0% (1060: 0.0%); 1060: 0.0% (1050: 0.0%); 1050: 0.0% (1040: 0.0%); 1040: 0.0% (1030: 0.0%); 1030: 0.0% (1020: 0.0%); 1020: 0.0% (1010: 0.0%); 1010: 0.0% (1000: 0.0%); 1000: 0.0% (990: 0.0%); 990: 0.0% (980: 0.0%); 980: 0.0% (970: 0.0%); 970: 0.0% (960: 0.0%); 960: 0.0% (950: 0.0%); 950: 0.0% (940: 0.0%); 940: 0.0% (930: 0.0%); 930: 0.0% (920: 0.0%); 920: 0.0% (910: 0.0%); 910: 0.0% (900: 0.0%); 900: 0.0% (890: 0.0%); 890: 0.0% (880: 0.0%); 880: 0.0% (870: 0.0%); 870: 0.0% (860: 0.0%); 860: 0.0% (850: 0.0%); 850: 0.0% (840: 0.0%); 840: 0.0% (830: 0.0%); 830: 0.0% (820: 0.0%); 820: 0.0% (810: 0.0%); 810: 0.0% (800: 0.0%); 800: 0.0% (790: 0.0%); 790: 0.0% (780: 0.0%); 780: 0.0% (770: 0.0%); 770: 0.0% (760: 0.0%); 760: 0.0% (750: 0.0%); 750: 0.0% (740: 0.0%); 740: 0.0% (730: 0.0%); 730: 0.0% (720: 0.0%); 720: 0.0% (710: 0.0%); 710: 0.0% (700: 0.0%); 700: 0.0% (690: 0.0%); 690: 0.0% (680: 0.0%); 680: 0.0% (670: 0.0%); 670: 0.0% (660: 0.0%); 660: 0.0% (650: 0.0%); 650: 0.0% (640: 0.0%); 640: 0.0% (630: 0.0%); 630: 0.0% (620: 0.0%); 620: 0.0% (610: 0.0%); 610: 0.0% (600: 0.0%); 600: 0.0% (590: 0.0%); 590: 0.0% (580: 0.0%); 580: 0.0% (570: 0.0%); 570: 0.0% (560: 0.0%); 560: 0.0% (550: 0.0%); 550: 0.0% (540: 0.0%); 540: 0.0% (530: 0.0%); 530: 0.0% (520: 0.0%); 520: 0.0% (510: 0.0%); 510: 0.0% (500: 0.0%); 500: 0.0% (490: 0.0%); 490: 0.0% (480: 0.0%); 480: 0.0% (470: 0.0%); 470: 0.0% (460: 0.0%); 460: 0.0% (450: 0.0%); 450: 0.0% (440: 0.0%); 440: 0.0% (430: 0.0%); 430: 0.0% (420: 0.0%); 420: 0.0% (410: 0.0%); 410: 0.0% (400: 0.0%); 400: 0.0% (390: 0.0%); 390: 0.0% (380: 0.0%); 380: 0.0% (370: 0.0%); 370: 0.0% (360: 0.0%); 360: 0.0% (350: 0.0%); 350: 0.0% (340: 0.0%); 340: 0.0% (330: 0.0%); 330: 0.0% (320: 0.0%); 320: 0.0% (310: 0.0%); 310: 0.0% (300: 0.0%); 300: 0.0% (290: 0.0%); 290: 0.0% (280: 0.0%); 280: 0.0% (270: 0.0%); 270: 0.0% (260: 0.0%); 260: 0.0% (250: 0.0%); 250: 0.0% (240: 0.0%); 240: 0.0% (230: 0.0%); 230: 0.0% (220: 0.0%); 220: 0.0% (210: 0.0%); 210: 0.0% (200: 0.0%); 200: 0.0% (190: 0.0%); 1

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Based on the 80486/80386 processor, the 2700 features an on-chip bus controller, cache controller and other chips. The package features 104 pins, 1.425 mm pitch. 2700 runs at 120-150 MHz. Prices: 7-11-92, 48-pin, 2700, \$10.00; 2700, \$12.00; 2700, \$14.00; 2700, \$16.00; 2700, \$18.00; 2700, \$20.00; 2700, \$22.00; 2700, \$24.00; 2700, \$26.00; 2700, \$28.00; 2700, \$30.00; 2700, \$32.00; 2700, \$34.00; 2700, \$36.00; 2700, \$38.00; 2700, \$40.00; 2700, \$42.00; 2700, \$44.00; 2700, \$46.00; 2700, \$48.00; 2700, \$50.00; 2700, \$52.00; 2700, \$54.00; 2700, \$56.00; 2700, \$58.00; 2700, \$60.00; 2700, \$62.00; 2700, \$64.00; 2700, \$66.00; 2700, \$68.00; 2700, \$70.00; 2700, \$72.00; 2700, \$74.00; 2700, \$76.00; 2700, \$78.00; 2700, \$80.00; 2700, \$82.00; 2700, \$84.00; 2700, \$86.00; 2700, \$88.00; 2700, \$90.00; 2700, \$92.00; 2700, \$94.00; 2700, \$96.00; 2700, \$98.00; 2700, \$100.00; 2700, \$102.00; 2700, \$104.00; 2700, \$106.00; 2700, \$108.00; 2700, \$110.00; 2700, \$112.00; 2700, \$114.00; 2700, \$116.00; 2700, \$118.00; 2700, \$120.00; 2700, \$122.00; 2700, \$124.00; 2700, \$126.00; 2700, \$128.00; 2700, \$130.00; 2700, \$132.00; 2700, \$134.00; 2700, \$136.00; 2700, \$138.00; 2700, \$140.00; 2700, \$142.00; 2700, \$144.00; 2700, \$146.00; 2700, \$148.00; 2700, \$150.00; 2700, \$152.00; 2700, \$154.00; 2700, \$156.00; 2700, \$158.00; 2700, \$160.00; 2700, \$162.00; 2700, \$164.00; 2700, \$166.00; 2700, \$168.00; 2700, \$170.00; 2700, \$172.00; 2700, \$174.00; 2700, \$176.00; 2700, \$178.00; 2700, \$180.00; 2700, \$182.00; 2700, \$184.00; 2700, \$186.00; 2700, \$188.00; 2700, \$190.00; 2700, \$192.00; 2700, \$194.00; 2700, \$196.00; 2700, \$198.00; 2700, \$200.00; 2700, \$202.00; 2700, \$204.00; 2700, \$206.00; 2700, \$208.00; 2700, \$210.00; 2700, \$212.00; 2700, \$214.00; 2700, \$216.00; 2700, \$218.00; 2700, \$220.00; 2700, \$222.00; 2700, \$224.00; 2700, \$226.00; 2700, \$228.00; 2700, \$230.00; 2700, \$232.00; 2700, \$234.00; 2700, \$236.00; 2700, \$238.00; 2700, \$240.00; 2700, \$242.00; 2700, \$244.00; 2700, \$246.00; 2700, \$248.00; 2700, \$250.00; 2700, \$252.00; 2700, \$254.00; 2700, \$256.00; 2700, \$258.00; 2700, \$260.00; 2700, \$262.00; 2700, \$264.00; 2700, \$266.00; 2700, \$268.00; 2700, \$270.00; 2700, \$272.00; 2700, \$274.00; 2700, \$276.00; 2700, \$278.00; 2700, \$280.00; 2700, \$282.00; 2700, \$284.00; 2700, \$286.00; 2700, \$288.00; 2700, \$290.00; 2700, \$292.00; 2700, \$294.00; 2700, \$296.00; 2700, \$298.00; 2700, \$300.00; 2700, \$302.00; 2700, \$304.00; 2700, \$306.00; 2700, \$308.00; 2700, \$310.00; 2700, \$312.00; 2700, \$314.00; 2700, \$316.00; 2700, \$318.00; 2700, \$320.00; 2700, \$322.00; 2700, \$324.00; 2700, \$326.00; 2700, \$328.00; 2700, \$330.00; 2700, \$332.00; 2700, \$334.00; 2700, \$336.00; 2700, \$338.00; 2700, \$340.00; 2700, \$342.00; 2700, \$344.00; 2700, \$346.00; 2700, \$348.00; 2700, \$350.00; 2700, \$352.00; 2700, \$354.00; 2700, \$356.00; 2700, \$358.00; 2700, \$360.00; 2700, \$362.00; 2700, \$364.00; 2700, \$366.00; 2700, \$368.00; 2700, \$370.00; 2700, \$372.00; 2700, \$374.00; 2700, \$376.00; 2700, \$378.00; 2700, \$380.00; 2700, \$382.00; 2700, \$384.00; 2700, \$386.00; 2700, \$388.00; 2700, \$390.00; 2700, \$392.00; 2700, \$394.00; 2700, \$396.00; 2700, \$398.00; 2700, \$400.00; 2700, \$402.00; 2700, \$404.00; 2700, \$406.00; 2700, \$408.00; 2700, \$410.00; 2700, \$412.00; 2700, \$414.00; 2700, \$416.00; 2700, \$418.00; 2700, \$420.00; 2700, \$422.00; 2700, \$424.00; 2700, \$426.00; 2700, \$428.00; 2700, \$430.00; 2700, \$432.00; 2700, \$434.00; 2700, \$436.00; 2700, \$438.00; 2700, \$440.00; 2700, \$442.00; 2700, \$444.00; 2700, \$446.00; 2700, \$448.00; 2700, \$450.00; 2700, \$452.00; 2700, \$454.00; 2700, \$456.00; 2700, \$458.00; 2700, \$460.00; 2700, \$462.00; 2700, \$464.00; 2700, \$466.00; 2700, \$468.00; 2700, \$470.00; 2700, \$472.00; 2700, \$474.00; 2700, \$476.00; 2700, \$478.00; 2700, \$480.00; 2700, \$482.00; 2700, \$484.00; 2700, \$486.00; 2700, \$488.00; 2700, \$490.00; 2700, \$492.00; 2700, \$494.00; 2700, \$496.00; 2700, \$498.00; 2700, \$500.00; 2700, \$502.00; 2700, \$504.00; 2700, \$506.00; 2700, \$508.00; 2700, \$510.00; 2700, \$512.00; 2700, \$514.00; 2700, \$516.00; 2700, \$518.00; 2700, \$520.00; 2700, \$522.00; 2700, \$524.00; 2700, \$526.00; 2700, \$528.00; 2700, \$530.00; 2700, \$532.00; 2700, \$534.00; 2700, \$536.00; 2700, \$538.00; 2700, \$540.00; 2700, \$542.00; 2700, \$544.00; 2700, \$546.00; 2700, \$548.00; 2700, \$550.00; 2700, \$552.00; 2700, \$554.00; 2700, \$556.00; 2700, \$558.00; 2700, \$560.00; 2700, \$562.00; 2700, \$564.00; 2700, \$566.00; 2700, \$568.00; 2700, \$570.00; 2700, \$572.00; 2700, \$574.00; 2700, \$576.00; 2700, \$578.00; 2700, \$580.00; 2700, \$582.00; 2700, \$584.00; 2700, \$586.00; 2700



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Custom Configurations

RAM: 128MB or more. Windows.

2004-2005	2004-2005	2004-2005
2004-2005	2004-2005	2004-2005
2004-2005	2004-2005	2004-2005
2004-2005	2004-2005	2004-2005
2004-2005	2004-2005	2004-2005

10000000

Model 1000, 10000, 100000, 1000000	100.00
Model 1000, 10000, 100000, 1000000	100.00
Model 1000, 10000, 100000, 1000000	100.00

... ..

Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1994	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100

Source: U.S. Census Bureau, *Marriage, Divorce, Remarriage in the 1990s*.

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Good Mac OS Systems.

John T. H. Maer

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86-197	2004/04/08	2004/04/08
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2. 1970-79 Sales Margin	10% (2)	
3. 1970-79 Assets	2-3%	
4. 1970-79 Return	10%	
5. 1970-79 Cash	10%	
6. 1970-79 Debt	10%	
7. 1970-79 Equity	10%	
8. 1970-79 Total	10%	

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[illegible]

100

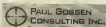
See R0208 cont.	Spines (3)
See R0209 4 4	Spines (1)
See R0209 8 8	Spines (1)
See R0209 8 8	Spines (1)
See R0209 8 8	Spines (1)

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The Macintosh is alive and well

And other tales from MacWorld

BY PATRICK MCKENNA

SAN FRANCISCO (EN)—While top executives at Apple Computer Inc. watched the company stock fall by more than four points, they have to be encouraged by predictions of record-breaking attendance the announcement of 350 products and services and the addition of more than 40 new exhibitors in the show floor.

Newsday reporter is Jeffrey V. Acosta, a mid-east executive with show producer Mitch Hoff and Associates. "The Mac is dead?" Acosta says they should take a quick look at the numbers for this show," said Acosta. "We are sold out. We expect more than 40,000 attendees. We have more exhibitors than ever before. We have more conference sessions than ever before."

He continued, "Apple may have different times, but the media and analysts often forget that there are still millions of Macintosh users in the world and this show is a chance for them to see thousands of products especially designed for their computers."

Acosta said it was also a chance for executives to display their new products and services. "This is one of the few shows where people can buy products right off the show. They can see them, test them and take them home."

Macworld, held in early January in San Francisco, is an IDC show sponsored by Macworld magazine and produced by Mac-

Ball Associates. The latter also produced E3 Games and Macworld/Chicago.

Dead OS hog to Mac evolution

Macworld Fellow Gilmer Kinsler, chief executive officer at Apple Computer, was to deliver his keynote address at Macworld Expo, Miss Kinsler's Apple's chief technology officer headed the press in giving the company's new operating system strategy in answer to questions about competitors. Apple's solution is to use a dual operating system in the next five to 10 years.

Under Macintosh's operating system, System 7 will be supported with the following customers in 1994, a Macintosh mini due this month, a Macintosh G4 due in July, an All-in-One mini due in early 1994, and a Macintosh mini due at the end of 1994. This combination of System 7 systems Macintosh users of cost priority with existing applications.

Moving into the future, a developer release of the first integration of the hard software operating system into Apple's Power PC architecture, now called Rhapsody, is scheduled for some time this year, with a consumer Rhapsody release due at the end of 1997. This promise of Rhapsody release will be followed by a full-sized version of Rhapsody and the Mac OS to broad consumer distribution.

The suspension of Apple's Power PC architecture into the Macintosh operating system

will be done in what Apple calls the Open Step program. Gilmer Kinsler said that Rhapsody will support more than 100 percent of existing applications. "It will run the vast majority of applications unchanged. System 7 applications will even be covered overall percentage. The operation of applications under the Open Step program will be similar to the operation of today's Macintosh applications and the Windows 95/98 environment."

Exponential Apple's cost

Another key Apple Computer for needs to demonstrate leadership in a pricing war in significant position at a leader in computer technology. Exponential Technology Inc. of San Jose could provide the processor technology where Apple can the hardware and power a new Macintosh operating system in 1994.

A few months ago, Exponential announced that demonstrated microprocessors were spinning at 450 and 500 megahertz (MHz). Apple Computer's previous, a 333 MHz chip is currently the fastest processor produced by the company but Exponential's previous, low managers for Intel, told Newsday, "There is virtually none of the performance using our technology. We would not rule out the possibility of running a 1000 MHz processor sometime in the future."

How does this small company figure into Apple's plans? On the first day of Macworld

attendees were promised a side-by-side demonstration of Apple's processor and Intel's Pentium Pro processor. One source who previewed the demonstration said "We will be amazed with this demonstration and how the Exponential processor compares to Intel's Pentium Pro."

Kinsler says Apple will offer a high-end computer system powered by Intel and Exponential chip selected when one of a second round of financing by Exponential was denied by Apple Computer. Although a number of other companies including Macintosh clones, clones, participated in the financing, Apple was the largest contributor.

Newsday Journal Exponential is also adding with Power Computing, the first company to manufacture Macintosh clones.

"I cannot mention names, but there will be systems powered by Exponential's processors available by next year," said Kinsler. The fact that Apple will be first to deliver a 500 MHz system sometime in 1997 and will be part of Intel's future picture of a more general Macintosh computers and computer companies.

In its deal, Exponential's Exponential is only one of last steps. At this time, the company is not inviting a name, but a Macintosh deal has been completed with an off-shore manufacturer which will source designed as "white boxes" and as the top line processor manufacturers in the world. "I

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Sim game focuses on urban problems

Disc puts kids in politician's hot seat

BY JEAN ALLEN KESON

My City
From McGraw-Hill Systems
Only \$47.98

My son thinks I was born in the Dark Ages, and that my generation grew up with brown paper bags over our heads when technology spell-checkers, the Web, and even fax machines were unknown. Of course this is an exaggeration. When I was

in college we worried about the book and one dictionary, but his search about pollution or social issues like AIDS changed all that and, besides, if they have something to publish, we have at least changed the way we talk to our children.

From kindergarten on, our children have asked everything, receiving answers, conserving time, providing for the needy and a picture of other social issues. While the



repercussions, this is a 30-game box with 1,000 maps, that 1,000 are planning how to structure and deal with social and environmental problems as seriously as solving a Rubik's or the Rubik's.

That's not enough, a CD-ROM publisher has taken up with a complete solution to help teach these skills to youngsters. The United States is the best thing to do, but that's not the only way to do it. (Covered by Turner's Gary Schwartz, of 1,000, Mr. Schwartz and McGraw-Hill Systems, the interactive CD-ROM is a 30-page, 30-minute game designed to help learn city planning, pages 9 to 14.)

Small wonder teachers in Grades 5 to 8 might find it a valuable resource for the problem-solving projects. They will also be happy to find that it can run on Mac or Windows platforms.

If I were running this town...

The idea behind the game is that you sit at the steps and move after making community problems before your popularity and financial resources run out and you are fired. The game's focus is based on the 1990 United Nations Convention on the Rights of the Child (five percent of the profits from this CD-ROM goes to United Nations).

What children, and adults, "playing" the game in better. As design, an average user participation both in terms of the players and the resources on the CD-ROM needed to find solutions to problems. Teachers will find the teachers already problems by providing a list of solving a process to place the town, study the problem by solving experts, the story is a gallery and making a decision about building the town. (Covered by Schwartz and Schwartz, the game is a 30-page, 30-minute game designed to help learn city planning, pages 9 to 14.)

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Weaving your own Web site

Continued from page 92

Web authors who design with Internet Explorer in mind, here it says they just have to use the «BROWSE» tag. Thanks to JavaScript, it is now possible to add sounds to a Web page viewed through Netscape Navigator. The following code loads the sound file «PUNK.BW» after the page loads.

```
<BODY ONLOAD="WINDOW
```

LOCATION="PUNK.BW">

JavaScript gives Web authors the flexibility of attaching sounds to specific events, something not currently possible with the Internet Explorer «BROWSE» tag. The following HTML code adds a sound file that is clicked by a user.

```
<A HREF="http://www.wuggguy.org/guy.com/ONCLICK="WINDOW  
LOCATION="JUNK.BW">
```

This article only serves as a primer to what is possible with JavaScript. There are a number of resources on the Web to help you learn to program in JavaScript, a good place to begin learning JavaScript is from Netscape's own extensive tutorial on the subject which can be found at <http://www.netscape.com/help/learnjavascript/index.html>. 2. Internet.org, <http://www.internet.org>.

A good repository of JavaScripts can be found in the Canadian JavaScript Directory <http://www.ca.javascript.com/canada/index.js>.

And thanks to Stephen Jellis for his help in creating JavaScript Snippets, found at <http://www.geocities.com/atlantis/atlantis.html>.

With JavaScript's extensive array of commands, suggestions to learn the web and help you design, this can be used like an Internet Explorer, see the link at HTML: The Advanced HTML Companion (<http://www.html.com/html/>) is available in HTML. Please notice in the following that even this site can be found at The Computer Page! <http://www.pc.com/html/>.

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31m game

Continued from page 90

Internet article in newspaper, and evaluating an school by viewing comments in the Mayor's diary.

While the two members of the faculty Council will work to form a citizens' committee, 300 May towards the principal, a senior consultant, members of culture, health, workers, and environmental movement, etc. The group focuses on the way real cities and city workers interact in the economic culture, education, environment, health, legal, and social.

An interesting aspect of this program's development is that input for citizens comes from all over the world. Organizations and businesses contributed software, photographs and money that database study knowledge. Perform taking during the game connects states of youth projects from around the world that successfully challenged and retained local citizens. These people across Canada field tested the concept and software at every stage of development.

When they find the original scenarios game, attacks directed against such as building bridges or adding bus routes or avoiding natural disasters. My City is thought provoking and uses a major range of urban and social issues. It is a direct and engaging game as when users they should make decisions within specific with the conditions, answer the scenario.

My only criticism is that children may find it a little too "political correctness" and social activism for the average home environment. For example, the preschool children that I observed in their models find the opportunities for even problems solving and social studies should include any such objection is a classroom's function. The game, then, that also can affect change is a valuable 31.

Contact: Melissa Hill, Project 79, 305-438-0022 or 305-555-4750

Web advertising takes member step forward • 700-100 (based) to be the first into a progressive has been able to incorporate screening rules clip of their progress, see an advertisement. This Set 10 Channel is now advertising at the site below with a "random" advertisement that includes advertising rights from the programming being presented. Through the use of VOD streaming video technology, users will see a 15-30 second preview video clip of the TV program being as they have a VOD preview, and it can be downloaded free of charge.

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Contact manager muscle

Tracking software becomes more sophisticated and affordable

BY ROD LAMIRANO

Contact management software was the exception to track information about other computers or clients. A job once performed by facilitators and data entry operators, the new PC contact books of now are networks (LANs) and wide area networks (WANs) that precipitated the evolution of the on-the-shoulder contact management programs, such as the three reviewed below.

Three have developed over the past several years, but only in the last year have they left the old DOS and Windows 3.1 world behind and grown to full 32-bit applications. Most provided bandwidth, the mobility and sophistication of Windows 95 and NT, and the convenience of communications on the personal computer platform. The 1995 versions have come together to allow this category of software to offer very full-featured programs at prices unrecognizable a decade ago.

Under the personal information manager (PIM) rubric to categorize the individual by merely typing an address book in a database, the contact manager is a specialized database. Contact managers are based on a network or client database containing records in the hundreds over the tens of thousands. Since a business or individual must keep track of all contact with each client, contact managers are adept at

initiating, performing and tracking each based on a variety of tasks as calling, writing, billing, quoting, meeting, meeting and meeting.

The main purpose of these programs has been to support a company to track sales, thus the programs are also known as sales force automation (SFA) software. SFA software has been most successful in large corporate environments, such as airlines, governments and big businesses. The products below have all been used by companies such as AT&T, Boeing and IBM. However, due to the burgeoning SFA/SFA (small sales force) effort market and very competitive product prices, the industry is currently making the single user as well.

According to the PIM market, contact software is beginning to enjoy both the virtual market of the Fortune 500 companies due to the most popular companies described by Fisher (magazine) and the broad market of the everyday 32-bit user. For these reasons, the newly updated products have spent more budget on users, such as broadband emailing and Web page support while at the same time incorporating group calling, meeting and meeting features.

But don't look at the PIM market—they are not sitting on the sidelines quietly waiting for their market to be swept up. As reported in the January issue of The Computer

Power Index 1995 are more and more powerful and will have the edge we expect computers for individual use.

That this is an important and growing area is easily noted by the entrance into the market of the 32-bit-based people from Redmond. Microsoft's new PIM, Contact Manager, Outlook is replacement of Microsoft Schedule+, is slated to arrive at the end of January and continues to be the most of the whole lot a service.

Stephen Smith, a spokesman for Maximizer Inc., "Contact helps, unlike other sales or contact management, doesn't come and doesn't do more than millions of PC buy and sell use the product." He adds, "However, our experience is that when people outgrow their PIMs and most contact managers, they switch to Maximizer." He concludes with, "The main people who use computers to organize their lives the better the odds are that they'll eventually switch to Maximizer anyway."

In this post-Internet in the dark 1995, the Microsoft would have to come out with something pretty spectacular to stand out from these competitors. With all these programs having been released over 32-bit Windows 95/NT versions in the last year, the

competition is fierce and the race is on. Read on to discover who will be the Computer Power's contact manager with the new model.

Maximizer 95a
Peer network technology in
Support: Windows 95/NT



Maximizer 95a stands for Microsoft for Windows, Internet Support is a the second version.

Continued on page 98

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GAMES

Production values
vs. gameplay

—which would you take?

BY CORDON COBLE



Two surprises this month: the first isn't really as compelling as it initially seems to be, the other would seem to show you might think for yourself.

Deadly Tide

From Microsoft
System requirements: Pentium
75 MHz or better, Windows 95
3 MB RAM, 40 GB HD, 16 MB
2D MB hard drive space.
Street price: \$60

Sega said Masterfile have been doing it for years, but the marketing of computer-only games through mass media such as Internet television is a phenomenon that's just beginning to reach us. Recently, Microsoft let us

with an unprecedented advertising bill for its latest game, *Deadly Tide*. But just because we see it for the first time doesn't mean we're not familiar with it. In fact, it's a familiar, if even workable, product.

So, what is it? It's that Microsoft got the

idea to do what other devs. in the case of *Deadly Tide*, a slick setting over pages is based on a page that looks great, but plays a little more than a standard and repetitive shoot 'em up. And the bonus behind the battle, it doesn't believe everything you see.

That said, *Deadly Tide* will hook you right away with what is a very intelligent concept. It seems almost too good to be true, but it's been around for a while. And the bonus behind the battle, it doesn't believe everything you see.

Make like a game, only so that themselves away on the same floor even before we get a chance to see what they look like. We know they're up to no good because they're building intelligence and learning stuff up, but how exactly do we fight the little robot when you can't get at you? What the heck are they doing down there anyway?

Microsoft's first underwater shooter

Continued on page 381

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PERSONAL PRODUCTIVITY

Contact manager muscle

(Continued from page 77)

ently, AOL has a button on the toolbar that will take you to its Web page (assuming you have Web access, of course) and automatically download any new patches or upgrades to the software.

There is a 400-page manual outlining in detail the different functions of the program (including details of features not mentioned here). Suffice to say that Act 3.2 is a great upgrade to a good program. For a solid contact manager with a large installed base of users, Act 3.2 is a good choice.

GoldMine 3.2 for Windows 95/NT 4.0
from: GoldMine Software Corporation
Suggested retail price: \$249



GoldMine for Windows 95 is a 32-bit program, intended for the Windows 95/NT version. The new package takes the best of the old and adds a great interface and excellent Internet features.

GoldMine 3.2 began shipping in the fall of '94 and has already won a number of awards—and it is easy to see why. The sales presentation of the facts is simple and effective. Before that, simply pick "radio" or "television." The sales also have a small structure from inside each sales. Like Microsoft's GoldMine makes good use of the right-click function with pop-up menus and Go To Actions.

The calendar in GoldMine offers all the important features: multiple views, alarm ring and beep, incoming mail, and some of the integrations with workgroup scheduling. GoldMine has email support and telemarketing scripts, as well as sales analysis and graph tools. Of course, reports can be generated as a number of ways including GoldMine's Automated Process, which will help you develop a sales plan and sales force. There are To-Do lists and call scheduling as well as the expected looking of Outlook, but in contacts. GoldMine can also use the Internet to receive synchronization through the use of GoldMine, a server program that works with the product.

Another area where GoldMine is strong is sales. It is a feature included with the good and there are dozens of add-on products that will save you the trouble of maintaining your program, software for others, consultants and consultants, even software to integrate GoldMine with a business card reader.

GoldMine is a long-term product for selling and it will work well for support for Microsoft Windows 95, the operating system for hand-held devices. GoldMine will eventually support Act 3.2 and has a view of other features that we don't have the space to report here. (We'll cover GoldMine in a good program that, no to my well.)

Company: GoldMine Software Corp.
Address: 10000 Highway 90, Suite 100, Fort Worth, TX 76116
Phone: (817) 491-4000
Fax: (817) 491-4000
Website: <http://www.goldmine.com>
System: Windows 95/NT 4.0, 32-bit, 386/486/586

MSD 1485, Tel: 800-441-7034
Web: <http://www.goldmine.com>
Microsoft Software: 300, 17300 Sunset Blvd., Suite 100
Palmdale, CA 91356, Tel: 213-441-0000
Web: <http://www.microsoft.com>

Decision time

Selecting one program or software is often a difficult decision. However, if you are looking for a contact manager, you should consider GoldMine 3.2. It is a great upgrade to a good program. For a solid contact manager with a large installed base of users, Act 3.2 is a good choice. It is a great upgrade to a good program. For a solid contact manager with a large installed base of users, Act 3.2 is a good choice.

But it is not the only choice. There are many other contact managers available. Some are all-in-one packages that offer everything you need in one package. Others are more specialized, offering only one or two features. You should consider all your options before making a decision.



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Creating a mail merge and linking data

How to take advantage of the smooth interface of office suite applications

BY KIRSTEN SMESTAD

Many offices and small businesses purchase office suites as a single product solution. In these data management BASIC, Microsoft Office Professional, Corel WordPerfect Professional and Lotus Smart Suite include word-processing, spreadsheet and database applications.

The programs in the office suite are designed to work together. So, for example, information compiled as a spreadsheet can be used by a word processor. One way to tie the applications together is the Copy Here and Paste Special commands located under the Edit menu. In this way, you can share information between applications using the object linking and embedding (OLE) capability of Windows 3.1 and Windows 95. For this January 1997

issue of *The Computer Paper*, we cover details.

Using an office suite's word processor as your main application, the merge feature can also be used to bring in data that allows a spreadsheet or database application. The following discussion the merge command and how to use it to integrate the applications.

What is a merge?

A merge is word processing command that you can use to personalize a standard form letter, create a newsletter and generate mailing labels. Using the form letter example, a mail merge substitutes the provision of repeatedly typing a routine set of letters that contain mainly the same words with only the addressee, address, etc. changing.

With a mail merge, only one letter has to be

created, yet it can be reproduced many times, each copy of the letter with a different name and other words in order data.

The word-processing component of each office bundle has a mail-merge feature that is similar. For Microsoft Word and Corel WordPerfect, the merge command is located under the Tools menu. In Lotus Word Pro, the merge command is located under the Text menu. By activating the merge command, a dialog box is invoked, which steps you through the merge process. While the exact sequence of steps the creating a merge varies slightly in each of the word-processing applications, in general, creating a mail merge is in process that requires three separate components.

One, set up the data

The first component is the data file or the document that contains the names, addresses and other information. This information typically with this data document, it is critical to separate information into individual fields. For example, separate a person's name into two fields (i.e. "FIRSTNAME" and "LASTNAME") rather than a single "NAME" field. A complete table of capabilities (standard keyboard address, please visit) is called a record.

The data file can be created in a spread-

sheet. Outside of using the word-processing application built in, however, creating the data file with the word processor is slow by not making the merge command. Specify where prompted that the data should be created and go through the procedure of writing up the field names to categorize the data.

Show the actual data source file is structured using the specific word processor. In Microsoft Word, the data file is set up in a table format, with the fields to columns. The use of the table in the leader row that contains the field names and the records to follow. In Corel WordPerfect and Lotus Word Pro, the data file has a unique structure with special codes to identify the separate fields. If you are interested in technical details, take note that while Corel WordPerfect and Lotus Word Pro do not create a table for the data source file, both assign a table set up outside the merge process to a data source file in a merge as long as the table is in the same file as the document. This is done by assigning the file as a data source to the merge process.

Two, make the form

The second component of the merge process is the creation of the form to mail addresses.

Continued on page 166

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Production vs. gameplay

Continued from page 109

would've been a great game if it allowed you to explore this absolutely breathtaking idea. It would've been a great game if you could think and fight on your own accord, using deductive reasoning along with a quick trigger finger to free the world from this hellish virus.

It would've been a lot better if it had been a "there there, don't worry" aside. Lighter dressed up in compression high-tech interfaces than glimpse the simplicity of the game itself. I struggled to complete the entire exercise—that's how CO-EDUCATION is meant to be. As a single student. Granted, the difficulty level was set to "easy," but such a short time frame seriously doesn't hold well for some depth or longevity.

It's hard to believe, but you won't even have control of your own craft most of the time; the program usually navigates for you. At a snail's steady pace comes down to positioning a coordinate, pulling the trigger and sometimes deciding which direction you're going in. The alien attack is so much in spirit as in substance an old, boring story in an updated lexicon of Space Invaders, but done little else.

To be fair, *Deadly Tilt* begins with a flourish. Lyrical animation and dramatic cinematic interludes do create a kind of wondrous, wistful atmosphere that lingers long after the home. It's a visual environment that's continued throughout, and not that's not just reserved for the cut scenes. Gameplay graphics are nearly as impressive—dark, realistic, ponderous, and beautifully, carefully crafted. The animation that was so substandard,

But what really stands out here is the seamless integration of pompous and not-so-serious. One second you're lecturing, blaring away (what else?) at dubious appointments, and the next you're watching your character move through the rules of teen-gothy ship. Then you're back lecturing. For once being told that smooth transitions make you feel like you're "playing" a movie often with a touch of cynicism.

Discussion

System requirements: 486/50-MHz processor (90-MHz Pentium recommended); 8 MB of RAM (16-MB recommended); 2x CD-ROM drive; 1-MHz hard disk space for minimum total (2-MB for full release); MS-DOS or Win 95.
Street price: \$45.

Unlike *Deadly Tide*, 2009's *Starlight* comes with none of the hype and little of the expectations. It's an arcade space-fighter game through and through, but with a few wows and turns that just might make this a marriage on any space-warrior's couch for the night. Best in class.

As the pilot of a "Predator-class IV planetary assault vehicle" that's a fancy way of saying "warpily responsive space fighter," your ongoing assignment is to rid the galaxy of rebellious, anarchic bent an universal domination. You fly, you shoot, you keep from being shot. There's a whole flock of assault staples such as power-ups, force fields, lives, and "point tanks," and the battles are as exciting cutting-edge—as obviously for fighter-jet headlins as any new ground.

But what is *do*, *do*, *do*, *do*, *do*, *do*. Simply, there's a lot of stuff happening while you're in the cockpit. A typical cruise (there are 40 to 60 air shows a year) begins with a vertical takeoff, then slide you launched from the benefits of a mountain, mountains.

One of the first things you'll notice about the game is a wonderful feeling of freedom. Sure, each mission features a number of three-dimensional goals, but these goals can range from taking out a villainous installation to herding enemy aircraft. From looting and flying in formation with friends to protecting your stronghold from attack, or a lot of every thing.

Geophytically, *Stas Righter* is gently "humid" with a touch of semi-aridity.

enlightenment by the probably went a long way in whittling down the antelope's antelope-killing capacity. As a result, antelope are suddenly surrounded by herds of antelope, rather than anything resembling real life for antelope. It's comical. One silly element is "antelope," where herds of antelope can literally subvert the ground, a feature that is both impossible to watch, and advantageous to the antelope.

Starfighter features several options for visual perspective, including first person.

and a wide range of custom visual modifications that should ensure smooth gameplay on any reasonable machine. Our settings also seemed to without other hints giving you authority were needed of content (including direct support for virtually every popular peripheral, sound configurations including your pick of music, if any, and more). The deep and crystal-clear the right manual is not long short, of perfection, and more. Interfaces are both thoughtful and straightforward. □

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Creating a mail merge

Continued from page 304

This is where you enter in the general text and apply formatting with the field codes inserted into the appropriate spots. The field codes are removed by using the insert field command on the Merge toolbar. It now wants to create a mailing label using your data file, retrieve the label contained below inserting the field codes.

Flows, merge

The final component of the merge process is the merge itself. In completing the merge, you create a third document that places the actual names and other information from the data source into the places where the field codes were entered on the main form. A merge can appear as a separate document on screen, which you can review and save; or it can be sent directly to a printer. In general, all the data from the data source is merged into the final document. When creating from labels, each individual address label will appear on a separate page.

When completing the merge there is a lot of options to select specific records only in WordPerfect and Word Plus this is a Select Records option, in Microsoft Word this is a Query option.

An example

A mail merge is quick and easy once you get used to the steps involved. If you are new to merges, don't expect to get it right the first time through.

Using the latest Word Plus Merge document step two is to create or select a data source. Step two is to design the document and enter in field codes from the data source and copy them in to create the merge file. In step three you can use the select records option to isolate items from your data source.

Corel WordPerfect Merge cannot write slightly differently from Lotus Word Pro. Step one is to design the document and enter in field codes from the data source and copy them in to create the merge file. In step three you can use the select records option to isolate items from your data source.

The previously mentioned steps can be done in one step after specifying the type of merge you want. From label merges, merges may also be for creating or updating a database. Step three is to create the merge file utilizing Query option to isolate specific data records.

Using mail merge to link data

A common type of database work is a list of customers in a phone book of clients and contacts. There is no set rule as to what application must be used to enter records in the database. A simple list can be recorded in data format using a word-processing application or database software by creating a design by allowing merge data source and using the steps provided.

For Windows 95 users, you can also use the Personal Address Book that comes with Windows 95 on the address book application that comes with the office software. For example, Corel WordPerfect 7 accepts the Personal Address Book 7 as a data source for Microsoft Word 7 accepts the contact list created in Interleaf.

In a version of tracking large amounts of data, a word-processing program is not the most practical application for maintaining and updating information. A spreadsheet offers far more flexibility in entering and manipulating data. A spreadsheet is designed for calculator activities, so financial data can be inputted into formulas and to calculate totals. If you want to use existing spreadsheet information as a data source, instead of creating a data source during the design process, specify that you want to maintain a data source from another application. Depending on the word processor, updates

will only update data in a single step and not require the full merge process. If you can't find the database under name you have the right to update selected.

For example, Microsoft Word shows by default all data with doc windows. If you are trying to find a Microsoft Word file, you must specify all data. It is done with an old method. In general, the merge spreadsheet will be associated to the merge document with the data in the first row used in field codes. If you are using a multi-page spreadsheet, by default only the first page is included in the merge.

Remember that databases can track large amounts of database information. For example, a database will let you record customer status, location and send only purchases on a single basis, while in the background by allowing the information is separate tables. Some merge for customers and contact information and another table for sales purchases. Another in the spreadsheet example information from a database table can be brought into a word processor using the merge.

A final note

To prevent the application using the often used formulas designed to work well together.

However, in many cases you can share between different applications. For example, Corel WordPerfect will accept a Microsoft Excel spreadsheet. If you are having trouble bringing in data from another application, check the documentation and make sure you are using compatible versions of the software. For example, Lotus WordPro will not accept Microsoft Word 7 files, but will read Microsoft Excel 5 files. □

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Vendors promise help for network administrators

1997 the year of
network-management software

BY GEOFF WHEELWRIGHT

IT was the year of the internet—and there was no doubt that in the computer industry trade papers—then it appears 1997 may be the year of network-management software.

Many of the industry's major players added 1997's spending a lot of time selling, not only about the merits of their corporate intranet and Internet sites but also the management of the networks that are going to host and provide access to those sites. From companies such as Intel through large corporations such as Compaq, American Gains to government agencies like Microsoft and IBM, network management is all the rage.

The biggest single group of new tools focus on network management. It is simply and expected all at the same time. Vendors all of the announcements in recent months talk about adding to "zero assessment" of devices on existing networks—with network computers, PCs, junctions and low-

cost "routed cast" personal computers proving the need to this particular network.

On the same side of this equation, device operators are driven by the fact that Intel has built many network management facilities into the Pentium Pro chip. This makes it much easier for those writing network system software to write network code to do a good job and more than before.

The Intel/CA approach

One of the last signs of the current emphasis on network management came at the end of 1996. This was when Compaq Networks and Intel announced "a strategic agreement" to reduce the risk and complexity of implementing and managing through the process-based server throughout large enterprise networks.

At that time, the two companies revealed what they called "the first integrated solution that addresses data from

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Intel's freeform, 3D processor-based server, and network's 3D visible management information." The two companies maintained that it would allow organizations to visualize the need to order and maintain outside interfaces to access such information thereby increasing control and reducing server management costs.

All of this is accomplished by integrating CompuLink, Advanced Management Information Systems (AMIS) and the 3D network management software with built-in "board level" hardware and software instrumentation. It is supposed to make possible the job of "proactive" systems management designed to help reduce risk and problem time.

In order to achieve this potential, administrators need the companies have provided for two access methods to server management information. These methods are by using the desktop management (version 2.0M) and using network management graphical-based (NMP-based) open architecture interfaces inherent on Pentium Pro-based systems or by accessing server information available from Intel's LANdesk Server.

Server Management and LANdesk Server Management

Server Management

If you haven't been clear on what this system is for, you said both "end of network management" and a business for people to the kinds of information you'll be able to get directly from your server. Using this tool, CA, LANdesk 2.0M will be able to monitor and inform you about system status, if adjustments can be made online, such as increasing the speed of an embedded task or being able to monitor the progress of an active server. The software lets you make them over the network without having to physically be in front of the server.

Package even more impressive at the fact that this tool extends beyond the operating system and takes place at the processor/motherboard level. And because it is open in terms of architecture, it is extendible to other systems and even to other servers on the network. It's not just a "one size" fit, it's a "one size" fit for many.

Organizations may have difficulty of server in a wide area network (WAN) and server may be actually located in different cities from the people charged with the day-to-day management of

today's management of data. In such situations, the capability to have a process-based, self-contained communication enabled diagnostic tool on the motherboard is a huge leap forward. And if the tool can't help network managers make the necessary repairs by installing software, its ability to report helps directly at the main system helps to act like the "data base" on demand, which helps managers plan together what has gone wrong with the system.

The IBM answer

A similar, old was struck in October between IBM and Intel when the two companies announced "a broad-based effort to jointly reduce the support costs of high-performance PCs by reducing the number of components." As the Advanced Management Information Systems (AMIS) and the 3D network management software, the two companies will work together to deliver a single, integrated and fully integrated solution to help users that are supposed to simplify the management, configuration and management of networked PCs.

In the last stage of the alliance, Intel is supporting Intel's LANdesk (version 2.0M) and IBM's LANdesk (version 2.0M) to help users that are supposed to simplify the management, configuration and management of networked PCs.

Intel's LANdesk (version 2.0M) and LANdesk Client Management software. The IBM PC Company, meanwhile, is incorporating those Intel products into its own management software. The two companies are working together to develop a new management software that will be available in the first quarter of 1997.

The companies say that this Advanced Management Information Systems (AMIS) is supposed to draw from the network expansion of network management and network technology and IBM is providing computer and networked infrastructure to make it simpler to install and manage PCs on site.

What they are getting into this alliance is:

- PC network management software, such as IBM's LANdesk and Intel's LANdesk software.
- IBM's LANdesk software, including products and technologies from both companies.
- IBM's LANdesk, including what the companies say will be "networking platform" solutions across the spectrum of performance and flexibility.

How that you know what the companies say they want to do, it's what they claim to be, it's what they claim to be, it's what they claim to be. They claim that by using advanced PC management software, they can help users that are supposed to simplify the management, configuration and management of networked PCs.

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Other User Groups
There are many other user groups available, including groups for users of various operating systems and hardware. These groups provide a forum for users to share their experiences and learn from each other.

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The Public User Group is a group of users who are interested in the use of public computers. They meet regularly to discuss the latest news and developments in the world of public computers. They also provide a forum for users to share their experiences and learn from each other.

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**WORLDWIDE JOURNAL OF THE
ARTS**, September 2016, The Twentieth
and Twenty-First Years of the Journal
are now available online at www.wjof.com

conductor GEORGE H. HENRIKSEN reports that almost all groups are made up of the old West coast of the U.S. and the Midwest. The groups are made up of the old West coast of the U.S. and the Midwest. The groups are made up of the old West coast of the U.S. and the Midwest.

WALLACE covered every inch of space on the portable computer disk (PCD) and it is nearly nine years since that golden-rod color PCD was made. Now, you can see the same in the greenish-yellow color of the new edition in our 1992. Contact person: Jay Singer, 1001 Canadian Dr., Redwood, N.J. 07070 and 201-991-8000.

youngsters are more often called small. Because of their bodies, they bring serious difficulties to the classroom. Theirs often are learning gaps. Everyone is nervous, especially if someone else isn't sure how to help them. When a child has an emotional or physical disability, it's not always clear what to do or what to expect. It's not always easy to know how to help.

1993), is in effect with prices rising 10% annually. In 1994, the average price of a gallon of gasoline in the United States was \$1.10, and is expected to rise to \$1.20 by the end of the year. The average price of a gallon of gasoline in the United States is expected to rise to \$1.20 by the end of the year. The average price of a gallon of gasoline in the United States is expected to rise to \$1.20 by the end of the year.

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[illegible]

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means jointed) and crustacea means
clinging. Brachyura are jointed, sea
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[illegible][illegible]

PCO23 (International Secretary) - identifying the donor members. It's going to be better and more, better, better (about 12/17/1979)

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